

## SEQUENCE LISTING

<110> Frudakis, Tony N.  
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<120> COMPOSITIONS AND METHODS FOR THE  
 THERAPY AND DIAGNOSIS OF BREAST CANCER

<130> 210121.419C11

<140> US

<141> 2001-03-16

<160> 334

<170> FastSEQ for Windows Version 3.0

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<211> 363

<212> DNA

<213> Homo sapien

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aaanagaang	tttatttttc	cttngaacca	tccaatana	aancaccgc	nggggaacgg	1140
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388

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<213> Homo sapien

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ttctgacact	gctcatgtct	ccaggcatct	atttgcactt	taggaggtgt	cgtgggagac	300
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aaacagtttt	taagtcgttt	ggaacaagat	attttttctt	tcctggcagc	ttttaacatt	240
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tccccaccc	gcactgaaac	ttcaccttct	aactgtctac	ctaaccaa	tctacccttc	180
aagtcttttg	tgcgtgctca	ctactctttt	tttttttttt	tttnttttgg	agatggagtc	240
tggctgtgca	gccaggggt	ggagtacaat	ggcacaacct	cagctcactg	naacctccgc	300
ctcccagggt	catgagattc	tcctgnttca	gccttcccag	tagctgggac	tacaggtgtg	360

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gctggtaagc actctgacta cacgaaattg ttcagatgtg atggatttat gacagttgat 180
ctttggaaga gattattaag tgattatatt aaagggaatc cattaattcc agaatatctt 240
ggtttagctc aagatgatat agaaatagaa cagaaagaga ctacaaatga agatgtatca 300
ccaactgata ttgaagagcc tatagtagaa aatgaattag ctgcatttat tagccttaca 360
catagcgatt ttcctgatga atcttatatt cagccatcga catagcatta cctgatgggc 420
aaccttacga ataatagaaa ctgggtgcgg ggctattgat gaattcatcc ncagtaaatt 480
tggatatnac aaaatataac tcgattgcat ttggatgatg gaataactaaa tctggcaaaa 540
gtaactttgg agctactagt aacctctctt tttgagatgc aaaattttct tttagggttt 600
cttattctct actttacgga tattggagca taacggga 638

```

```

<210> 17
<211> 286
<212> DNA
<213> Homo sapien

```

```

<400> 17
actgatggat gtcgccggag gcgaggggcc ttatctgatg ctgggctgcc tgttcgtgat 60
gtgcgcggcg attgggctgt ttatctcaaa caccgccacg gcgggtgctga tggcgcctat 120
tgccttagcg gcggcgaagt caatggcgct ctcacctat ccttttgcca tgggtggtggc 180
gatggcggtc tcggcgcgct ttatgacccc ggtctcctcg ccggttaaca ccctggtgct 240
tggccctggc aagtactcat ttagcgattt tgtcaaaata ggcgtg 286

```

```

<210> 18
<211> 262
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(262)
<223> n = A,T,C or G

```

```

<400> 18
tcggatcatag cagccccttc ttctcaattt catctgtcac taccctgggtg tagtatctca 60
tagccttaca tttttatagc ctctccctg gtctgtcttt tgattttcct gcctgtaatc 120
catatcacac ataactgcaa gtaaacattt ctaaagtgtg gttatgctca tgtcactcct 180

```

gtgncaagaa atagtttcca ttaccgtctt aataaaattc ggatttggtc tttncatttn 240  
tcaactcttca cctatgaccg aa 262

<210> 19  
<211> 261  
<212> DNA  
<213> Homo sapien

<400> 19  
tcggatcatag caaagccagt ggtttgagct ctctactgtg taaactccta aaccaaggcc 60  
atztatgata aatgggtggca ggatttttat tataaacatg taccatgca aatttcctat 120  
aactctgaga tatattcttc tacatttaaa caataaaaaat aatctatttt taaaagccta 180  
atttgogtag ttaggtaaga gtgtttaatg agaggggtata aggtataaat caccagtcaa 240  
cgtttctctg cctatgaccg a 261

<210> 20  
<211> 294  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(294)  
<223> n = A,T,C or G

<400> 20  
tacaacgagg cgacgtcggg aaaatcggac atgaagccac cgctggtctt ttcgtccgag 60  
cgataggcgc cggccagcca gcggaacggg tgcccggatg gcgaagcgag ccggagttct 120  
tcggactgag tatgaatctt gttgtgaaaa tactcgccgc ctctgttcga cgacgtcgcg 180  
tcgaaatctt cgantcctt acgatcgaag tcttcgtggg cgacgatcgc ggtcagttcc 240  
gccccaccga aatcatggtt gagccggatg ctgnccccga agnctcgtt tgtn 294

<210> 21  
<211> 208  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(208)  
<223> n = A,T,C or G

<400> 21  
ttggtaaagg gcatggacgc agacgcctga cgtttggtcgtg aaaatctttc attgattcgt 60  
atcaatgaat aggaaaattc ccaaagaggg aatgtcctgt tgctcgccag tttttntggt 120  
gttctcatgg anaaggcaan gagctcttca gactattggn attntcgttc ggtcttctgc 180  
caactagtcg ncttgcnang atcttcat 208

<210> 22  
<211> 287  
<212> DNA  
<213> Homo sapien

<220>

<221> misc\_feature  
 <222> (1)...(287)  
 <223> n = A,T,C or G

<400> 22  
 nccnttgagc tgagtgattg agatntgtaa tggttgtaag ggtgattcag gcggattagg 60  
 gtggcggggtc acccggcagt gggctctccg acaggccagc aggatttggg gcaggtagcg 120  
 ngtgcgcatc gctcgactat atgctatggc aggcgagccg tggaaggngg atcagggtcac 180  
 ggcgtggag ctttccacgg tccatgnatt gngatggctg ttctaggcgg ctgttgccaa 240  
 gcgtgatggg acgctggctg gagcattgat ttctggtgcc aagggtg 287

<210> 23  
 <211> 204  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(204)  
 <223> n = A,T,C or G

<400> 23  
 ttgggttaaag ggagcaagga gaaggcatgg agaggctcan gctggctcctg gcctacgact 60  
 gggccaagct gtcgccgggg atggtggaga actgaagcgg gacctcctcg aggtcctccg 120  
 ncgttacttc nccgtccagg aggagggtct ttccgtggctc tnggaggagc ggggggagaa 180  
 gatnctctc atggtcnaca tccc 204

<210> 24  
 <211> 264  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(264)  
 <223> n = A,T,C or G

<400> 24  
 tggattgggtc aggagcgggt agagtggcac cattgagggg atattcaaaa atattatattt 60  
 gtctaaatg atagttgctg agtttttctt tgacccatga gttatatttg agtttatttt 120  
 ttaactttcc aatcgcatgg acatgttaga cttattttct gttaatgatt nctattttta 180  
 ttaaattgga tttgagaaat tggttnttat tatatcaatt tttgggtatt gttgagtttg 240  
 acattatagc ttagtatgtg acca 264

<210> 25  
 <211> 376  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(376)  
 <223> n = A,T,C or G

&lt;400&gt; 25

ttacaacgag	gggaaactcc	gtctctacaa	aaattaaaaa	attagccagg	tgtggtggtg	60
tgcacccgca	atcccagcta	cttggggaggt	tgagacacaa	gantcaccta	natgtgggag	120
gtcaaggttg	catgagtcac	gattgtgccca	ctgcactcca	gcctgggtga	cagaccgaga	180
ccctgcctca	anaganaang	aataggaagt	tcagaaatcn	tggntgtggn	gcccagcaat	240
ctgcatctat	ncaacccctg	caggcaangc	tgatgcagcc	tangttcaag	agctgctgtt	300
tctggaggca	gcagttnggg	cttccatcca	gtatcacggc	cacactcgca	cnagccatct	360
gtcctccgtn	tgtnac					376

&lt;210&gt; 26

&lt;211&gt; 372

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(372)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 26

ttacaacgag	gggaaactcc	gtctctacaa	aaattaaaaa	attagccagg	tgtggtggtg	60
tgcacctgta	atcccagcta	cttgggcggc	tgagacacaa	gaaccaccta	aatgtgggag	120
ggtcaaggtt	gcatgagtc	tgatcgcgcc	actgcaactc	agcctgggtg	acagactgag	180
accctgcctc	aaaagaaaaa	gaataggaag	ttcagaaaacc	ctgggtgtgg	ngcccagcaa	240
tctgcattta	aacaatccct	gcaggcaatg	ctgatgcagc	ctaagttcaa	gagctgctgt	300
tctggaggca	gnagtaaggg	cttccatcca	gcatcacggn	caacactgca	aaagcacctg	360
tcctcgttg	ta					372

&lt;210&gt; 27

&lt;211&gt; 477

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 27

ttctgtccac	atctacaagt	tttattttatt	ttgtgggttt	tcagggtgac	taagtttttc	60
cctacattga	aaagagaagt	tgctaaaagg	tgacacaggaa	atcatttttt	taagtgaata	120
tgataatatg	ggtccgtgct	taatacaact	gagacatatt	tgttctctgt	tttttttagag	180
tcacctctta	aagtccaatc	ccacaatggt	gaaaaaaaaa	tagaaagtat	ttgttctacc	240
tttaaggaga	ctgcagggat	tctccttgaa	aacggagtat	ggaatcaatc	ttaaataaat	300
atgaaattgg	ttggtcttct	gggataagaa	attcccaact	cagtgtgctg	aaattcacct	360
gacttttttt	gggaaaaaat	agtcgaaaaat	gtcaatttgg	tccataaaat	acatgttact	420
attaaaagat	atttaaagac	aaattctttc	agagctctaa	gattggtgtg	gacagaa	477

&lt;210&gt; 28

&lt;211&gt; 438

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(438)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 28

```

tctncaacct cttgantgtc aaaaaccttn taggctatct ctaaaagctg actggtattc      60
attccagcaa aatccctcta gtttttggag tttcctttta ctatctgggg ctgcctgagc      120
cacaaatgcc aaattaagag catggctatt ttcggggggt gacaggtcaa aaggggtgta      180
aatccgataa gcctcctgga ggtgctctaa aaacactcct ggtgactcat catgccctg      240
gacgacttca atcgncttag acaagtttat aggtttctgg gcagctccct gaatacccac      300
gaggagatac cgggtgaaat cgtcaaaaagt tctccctcca cttgagaaat ttgggtccca      360
attaggtccc aattgggtct ctaatcacta ttctcttagc ttctctctcc ggnctattgg      420
ttgatgtgag gttgaaga                                     438

```

```

<210> 29
<211> 620
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(620)
<223> n = A,T,C or G

```

```

<400> 29
aagagggtac cagccccaag ccttgacaac ttccataggg tgtcaagcct gtgggtgcac      60
agaagtcaaa aattgagttt tgggatcctc agcctagatt tcagaggata taaagaaaca      120
cctaacacct agatattcag acaaaaagttt actacaggga tgaagctttc acggaaaacc      180
tctactagga aagtacagaa gagaaatgtg ggtttggagc ccccaaacag aatcccctct      240
agaacactgc ctaatgaaac tgtgagaaga tggccactgt catccagaca ccagaatgat      300
agaccacca aaaacttatg ccatattgcc tataaaacct acagacactc aatgccagcc      360
ccatgaaaaa aaaactgaga agaagactgt nccctacaat gccaccggag cagaactgcc      420
ccaggccatg gaagcacagc tcttatatca atgtgacctg gatgttgaga catggaatcc      480
nangaaatcn ttttaanact tccacgggtn aatgaactgc ctattanatt cngaacttan      540
atcnggcct gtgacctctt tgctttggcc attccccctt tttggaatgg ctnttttttt      600
cccatgcctg tncctctta                                     620

```

```

<210> 30
<211> 100
<212> DNA
<213> Homo sapien

```

```

<400> 30
ttacaacgag ggggtcaatg tcataaatgt cacaataaaa caatctcttc tttttttttt      60
tttttttttt tttttttttt tttttttttt tttttttttt                                     100

```

```

<210> 31
<211> 762
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

```

```

<400> 31
tagtctatgc gccggacaga gcagaattaa attggaagtt gccctccgga ctttctaccc      60
acactcttcc tgaaaagaga aagaaaagag gcaggaaaga ggttaggatt tcattttcaa      120

```



gagtcagcta	attaggagag	cagagtttag	acagcagtag	gcaccccatg	atacaaacca	180
tggacaaagt	ccctgttttag	taactgccag	acatgatcct	gctcagggtt	tgaaatctct	240
ctgcccataa	aagatggaga	gcaggagtgc	catccacatc	aacacgtgtc	caagaaagag	300
tctcagggag	acaaggggat	caaaaaacaa	gattcttaat	gggaaggaaa	tcaaaccaaa	360
aaattagatt	tttctctaca	tatatataat	atacagatat	ttaacacatt	attccagagg	420
tggctccagt	ccttggggct	tgagagatgg	tgaaaacttt	tgttccacat	taacttctgc	480
tctcaaattc	tgaagtatat	cagaatggga	caggcaatgt	tttgctccac	actggggcac	540
agacccaaat	ggttctgtgc	ccgaagaaga	gaagcccga	agacatgaag	gatgcttaag	600
gggggttggg	aaagccaaat	tggtantatc	ttttcctcct	gcctgtgttc	cngaagtctc	660
cnctgaagga	attcttaaaa	ccctttgtga	ggaaatgccc	ccttaccatg	acaantggtc	720
ccattgcttt	tagggngatg	gaaacaccaa	gggttttgat	cc		762

&lt;210&gt; 32

&lt;211&gt; 276

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 32

tagtctatgc	gtgtattaac	ctcccctccc	tcagtaacaa	ccaaagaggc	aggagctggt	60
attaccaacc	ccattttaca	gatgcatcaa	taatgacaga	gaagtgaagt	gacttgcgca	120
cacaaccagt	aaattggcag	agtcagattt	gaatccatgg	agtctgggtc	gcactttcaa	180
tcaccgaata	ccctttctaa	gaaacgtgtg	ctgaatgagt	gcattggataa	atcagtgtct	240
actcaacatc	tttgcttaga	tatcccgcac	agacta			276

&lt;210&gt; 33

&lt;211&gt; 477

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 33

tagtagttgc	caaatatattg	aaaatttacc	cagaagtgat	tgaaaacttt	ttggaacaa	60
aaacaaataa	agccaaaagg	taaaataaaa	atatctttgc	actctcgtaa	ttacctatcc	120
ataacttttt	caccgtaagc	tctcctgctt	gttagtgtag	tgtgggttata	ttaaactttt	180
tagttattat	tttttattca	cttttccact	agaaagtcac	tattgattta	gcacacatgt	240
tgatctcatt	tcattttttc	tttttatagg	caaaatttga	tgctatgcaa	caaaaatact	300
caagcccatt	atcttttttc	cccccgaaat	ctgaaaattg	caggggacag	agggaagtta	360
tcccatataa	aaattgtaaa	tatgttcagt	ttatgtttta	aatgcacaa	aacataagaa	420
aattgtgttt	acttgagctg	ctgattgtaa	gcagttttat	ctcaggggca	actacta	477

&lt;210&gt; 34

&lt;211&gt; 631

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 34

tagtagttgc	caattcagat	gatcagaaat	gctgctttcc	tcagcattgt	cttgttaaac	60
cgcattgccat	ttggaacttt	ggcagtgaga	agccaaaagg	aagaggtgaa	tgacatatat	120
atatatatat	attcaatgaa	agtaaaatgt	atatgctcat	atactttcta	gttatcagaa	180
tgagttaagc	tttatgccat	tgggctgctg	catattttta	tcagaagata	aaagaaaatc	240
tgggcatttt	tagaatgtga	tacatgtttt	tttaaaactg	ttaaatatta	tttcgatatt	300
tgtctaagaa	ccggaatgtt	cttaaaattt	actaaaacag	tattgtttga	ggaagagaaa	360
actgtactgt	ttgccattat	tacagtogta	caagtgcacg	tcaagtcacc	cactctctca	420
ggcatcagta	tccacctcat	agcttttacac	atthttgacg	ggaatattgc	agcatcctca	480
ggcctgacat	ctgggaaagg	ctcagatcca	cctactgctc	cttgctcggt	gatttgtttt	540

```

aaaatattgt gcctggtgtc actttttaagc cacagccctg cctaaaagcc agcagagaac 600
agaacccgca ccattctata ggcaactact a 631

```

```

<210> 35
<211> 578
<212> DNA
<213> Homo sapien

```

```

<400> 35
tagtagttgc catcccatat tacagaaggc tctgtataca tgacttattt ggaagtgatc 60
tgttttctct ccaaaccocat ttatogtaat ttcaccagtc ttggatcaat ctgggtttoc 120
actgatacca tgaaacctac ttggagcaga cattgcacag ttttctgtgg taaaaactaa 180
aggtttattt gctaaagctgt catcttatgc ttagtatttt ttttttacag tggggaattg 240
ctgagattac attttgttat tcattagata ctttgggata acttgacact gtcttctttt 300
tttcgctttt aattgctatc atcatgcttt tgaacaaga acacattagt cctcaagtat 360
tacataagct tgcttggttac gcctggtggt ttaaaggact atctttggcc tcaggttcac 420
aagaatgggc aaagtgtttc cttatgttct gtagttctca ataaaagatt gccaggggcc 480
gggtactgtg gctcgcactg taatcccagc actttgggaa gctgaggctg gcggatcatg 540
ttagggcagg tgttcgaaac cagcctgggc aactacta 578

```

```

<210> 36
<211> 583
<212> DNA
<213> Homo sapien

```

```

<400> 36
tagtagttgc ctgtaatccc agcaactcag gaggctgggg caggagaatc agttgaacct 60
gggaggcaga agttgtaatt agcaaagatc gcaccattgc acttcagcct gggcaacaag 120
agtgaagatt catctcaaaa acaaaaaaaaa gaaaaagaaa agaaaaggaa aaaacgtata 180
aaccagccca aaacaaaatg atcattcttt taataagcaa gactaattta atgtgtttat 240
ttaatcaaag cagttgaatc ttctgagtta ttggtgaaaa taccatgta gttaatttag 300
ggttcttact tgggtgaacg tttgatgttc acagggttata aaatggttaa caaggaaaat 360
gatgcataaa gaatcttata aactactaaa aataaataaa atataaatgg ataggtgcta 420
tggatggagt ttttgtgtaa tttaaaatct tgaagtcatt ttggatgctc attggttgct 480
tggtaatttc cattaggaaa aggttatgat atggggaaac tgtttctgga aattgcggaa 540
tgtttctcat ctgtaaaatg ctagtatctc agggcaacta cta 583

```

```

<210> 37
<211> 716
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(716)
<223> n = A,T,C or G

```

```

<400> 37
gatctactag tcatntggat tctatccatg gcagctaagc ctttctgaat ggattctact 60
gctttcttgt tctttaatcc agacccttat atatgtttat gttcacaggc agggcaatgt 120
ttagtgaaaa caattctaaa ttttttattt tgcattttca tgctaatttc cgtcacactc 180
cagcaggctt cctgggagaa taaggagaaa tacagctaaa gacattgtcc ctgcttactt 240
acagcctaag ggtatgcaaa accacttcaa taaagtaaca ggaaaagtac taaccaggta 300
gaatggacca aaactgatat agaaaaatca gaggaagaga ggaacaaata tttactgagt 360

```

```

cctagaatgt acaaggcttt ttaattacat attttatgta aggcctgcaa aaaacagggtg 420
agtaatcaac atttgtccca ttttacatat aaggaaactg aagcttaaat tgaataatTT 480
aatgcataga ttttatagtt agaccatggt cagggtcccta tgttatactt actagctgta 540
tgaatatgag aaaataatTT tgttatTTTt ttggcatcag tattttcatc tgcaaaataa 600
agctaaagtt atttagcaaa cagtcagcat agtgccctgat acatagtagg tgctccaaac 660
atgattacnc tantatnngg tattanaaaa atccaatata ggcntggata aaaccg 716

```

```

<210> 38
<211> 688
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(688)
<223> n = A,T,C or G

```

```

<400> 38
ttctgtccac atatcatccc actttaattg ttaatcagca aaactttcaa tgaaaaatca 60
tccattttta ccaggatcac accaggaaac tgaagggtgta ttttttttta ccttaaaaaa 120
aaaaaaaaa accaaacaaa ccaaaacaga ttaacagcaa agagttctaa aaaatttaca 180
tttctcttac aactgtcatt cagagaacaa tagttcttaa gtctgttaaa tcttggcatt 240
aacagagaaa cttgatgaan agttgtactt ggaatattgt ggattttttt ttttgtctaa 300
tctcccccta ttgttttgcc aacagtaatt taagtttgtg tggaacatcc ccgtagttga 360
agtgtaaaca atgtatagga aggaatatat gataagatga tgcatacat atgcattaca 420
tgtagggacc ttcaacaact catgcactca gaaaacatgc ttgaagagga ggagaggacg 480
gccagggtc accatccagg tgccttgagg acagagaatg cagaagtggc actgttgaaa 540
tttagaagac catgtgtgaa tggtttcagg cctgggatgt ttgccaccaa gaagtgcctc 600
cgagaaatTT ctttccatt tggaatacag ggtggcttga tgggtacggt gggtgaccca 660
acgaagaaaa tgaaattctg ccctttcc
688

```

```

<210> 39
<211> 585
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(585)
<223> n = A,T,C or G

```

```

<400> 39
tagtagttgc cgcnnaccta aaanttggaa agcatgatgt ctaggaaaca tantaaaata 60
gggtatgcct atgtgctaca gagagatggt agcattttaa gtgcatantt ttatgtatTT 120
tgacaaatgc atatncctct ataatccaca actgattacg aagctattac aattaaaaag 180
tttggccggg cgtggtgggc ggtggctgac gcctgtaatc ccagcacttt gggaggccga 240
ggcacgcgga tcacgagggtc gggagttcaa gaccatcctg gctaacacgg tgaaagtcca 300
tctctactaa aaatacga aaattacccc ggcgtggtgg cgggcgcctg tagtcccagc 360
tactccggag gctgaggcag gagaatggcg tgaaccacgg acacggagct tgcagtgtgc 420
caacatcacg tctactgcct ccagcctggg ggacaggaac aagantcccg tcctcanaaa 480
agaaaaatac tactnatant ttcnacttta ttttaantta cacagaactn cctcttggta 540
cccccttacc attcatctca cccacctcct atagggcacn nctaa 585

```

```

<210> 40

```

<211> 475  
 <212> DNA  
 <213> Homo sapien

<400> 40  
 tctgtccaca ccaatcttag aagctctgaa aagaatttgt ctttaaatat cttttaatag 60  
 taacatgtat tttatggacc aaattgacat tttcgactgt tttttccaaa aaagtcaggt 120  
 gaatttcagc acactgagtt gggaatttct tatcccagaa gaccaaccaa tttcatattt 180  
 atttaagatt gattccatac tccgttttca aggagaatcc ctgcagtcct cttaaaggta 240  
 gaacaaatac ttcctatttt tttttcacca ttgtgggatt ggactttaag aggtgactct 300  
 aaaaaaacag agaacaaata tgtctcagtt gtattaagca cggacccata ttatcatatt 360  
 cacttaaaaa aatgatttcc tgtgcacctt ttggcaactt ctcttttcaa tgtagggaaa 420  
 aacttagtca ccctgaaaac ccacaaaata aataaaactt gtagatgtgg acaga 475

<210> 41  
 <211> 423  
 <212> DNA  
 <213> Homo sapien

<400> 41  
 taagagggta catcgggtaa gaacgtaggc acatctagag cttagagaag tctggggtag 60  
 gaaaaaaatc taagtattta taagggtata ggtaacattt aaaagtaggg ctagctgaca 120  
 ttatttagaa agaacacata cggagagata agggcaaagg actaagacca gaggaacact 180  
 aatatttagt gatcacttcc attcttggtta aaaatagtaa cttttaagtt agcttcaagg 240  
 aagatttttg gccatgatta gttgtcaaaa gttagttctc ttggggttat attactaatt 300  
 ttgttttaag atccttggtta gtgctttaat aaagtcatgt tatatcaaac gctctaaaac 360  
 attgtagcat gttaaatgtc acaatatact taccatttgt tgtatatggc tgtaccctct 420  
 cta 423

<210> 42  
 <211> 527  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(527)  
 <223> n = A,T,C or G

<400> 42  
 tctcctaggc taatgtgtgt gtttctgtaa aagtaaaaag ttaaaaattt taaaaataga 60  
 aaaaagctta tagaataaga atatgaagaa agaaaatatt tttgtacatt tgcacaatga 120  
 gtttatgttt taagctaagt gttattacaa aagagccaaa aagggtttta aaattaaaac 180  
 gtttgtaaag ttacagtacc cttatgttaa tttataattg aagaaagaaa aacttttttt 240  
 tataaatgta gtgtagccta agcatacagt atttataaag tctggcagtg ttcaataatg 300  
 tcctaggcct tcacattcac tcaactgactc acccagagca acttccagtc ctgtaagctc 360  
 cattcgtggg aagtgccta tacagggtgca ccatttattt tacagtattt ttactgtacc 420  
 ttctctatgt ttccatatgt ttcgatatac aaataccact gggttactatn gcccnacagg 480  
 taattccagt aacacggcct gtatacgtct ggtancccta gngaaga 527

<210> 43  
 <211> 331  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 43

tcttcaacct	cgtaggacaa	ctctcatatg	cctggggcact	atTTTTtaggt	tactaccttg	60
gctgcccttc	tttaagaaaa	aaaaaagaag	aaaaaagaac	ttttccacaa	gtttctcttc	120
ctctagttgg	aaaattagag	aatcatgtt	tttaattttg	tgttatttca	gatcacaaat	180
tcaaacactt	gtaaacatta	agcttctgtt	caatccccctg	ggaagaggat	tcattctgat	240
atttacgggt	caaaagaagt	tgtaatatgt	tgcttggaac	acagagaacc	agttattaac	300
ttcctactac	tattatataa	taaataataa	c			331

&lt;210&gt; 44

&lt;211&gt; 592

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(592)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 44

ggcttagtag	ttgccaggca	aaatarcgtt	gattctcctc	aggagccacc	cccaacaccc	60
ctgtttgctt	ctagacctat	acctagacta	aagtcccagc	agacccttag	aggtgaggtt	120
cagagtgacc	cttgaggaga	tgtgctacac	tagaaaagaa	ctgcttgagt	tttctaattt	180
atataagcag	aaatctggag	aagagtcata	ggaatggata	ttaaggggtg	gagataatgg	240
cggaaggaat	atagagttgg	atcaggctgg	acttattgat	ttgaaccac	taagtagaga	300
ttctgctttt	gatgttgac	ctcaggagg	taaaaaaggt	tttaatgggt	ctaatagttt	360
atttgcttgg	ttagctgaaa	tatggataaa	agatggocca	ctgtgagcaa	gctggaaatg	420
cctgatctct	ctcagtttaa	tgtagaggaa	gggatccaaa	agtttaggga	ganttggaatg	480
ctggraktgg	attggtcact	ttgrgacct	cccwtccag	ctgggagggt	ccagaagata	540
cacccttgac	caacgctttg	cgaaatggat	ttgtgatggc	ggcaactact	aa	592

&lt;210&gt; 45

&lt;211&gt; 567

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(567)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 45

ggcttagtag	ttgccattgc	gagtgcctgc	tcaacgagcg	ttgaacatgg	cggattgtct	60
agattcaacg	gatttgagtt	ttaccagcaa	agcgaaccaa	gcgcggccca	gagaattatg	120
ggttggttgg	ctttgaaaag	atggaaatcc	tgtaggccta	gtcagaaaag	ccttcttgca	180
gaacagttgg	ttctcgggcg	aacgctcatc	aagatgccca	ttggaaaggc	tagcgtgtat	240
ttgggagagc	ctgatagcgt	gtcttctgat	gatgtttgtg	cttgacagct	gacaaaagat	300
atgcaaagca	agtccgaact	agacgtcaag	cttcgtgagc	aaattattgt	agactcctac	360
ttatactgtg	aggaatgata	gccaagggtg	gggactttta	gactaagggtg	gtttgtactt	420
gcgccgatga	tcccaggcag	aaagamctga	tcgctagtgt	tatacgggca	actactaagc	480
cgaattccag	cacactggcg	gccgttacta	attggatccg	anctcgggtac	cagcttgatg	540
catascctga	gttwtctata	ntgtcnc				567

&lt;210&gt; 46

```

<211> 908
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(908)
<223> n = A,T,C or G

```

```
<400> 46
```

```

gagcgaaaga ccgagggcag ngnttangng cgangaagcg gagagggcca aaaagcaacc      60
gctttccccc gggggtgccg attcattaag gcagggtttc ccgatggaag      120
gcggcagggg cgcaagcaat taatgtgagt aggccattca ttagcaccgc ggcttaacat      180
ttaagcttcg ggttggtatg tgggtggaat tgtgagcgga taacaatttc acacaggaaa      240
cagctatgac catgattacg ccaagctatt taggtgacat tatagaataa ctcaagttat      300
gcatcaagct tggtagcgag ttccggtacc ctagtaacgg ccgccagtgt gtggaattcg      360
gcttagtagt tgccgaccat ggagtgtctc ctaggctaga atacctgagy tcctccctag      420
cctcactcac attaaattgt atcttttcta cattagatgt cctcagcgcc ttattttctgc      480
tggtacwatc ataaattaat cctgatagga tgatagcagc agattaatta ctgagagtat      540
gttaatgtgt catccctcct atataacgta tttgcatttt aatggagcaa ttctggagat      600
aatccctgaa ggcaaaggaa tgaatcttga gggtgagaaa gccagaatca gtgtccagct      660
gcagttgtgg gagaagtgga tattatgtat gtctcagaag tgacaccata tgggcaacta      720
ctaagcccgga attccagcac actggcgggc gttactaatg gatccgagct cggtagcaag      780
cttgatgcat agcttgagta tctatagtgt cactaaatag cctggcggtta tcatggtcac      840
agctgtttcc tgtgtgaaat tggtatccgc tcccaattcc cccaccata cgagccggaa      900
cataaagt                                         908

```

```

<210> 47
<211> 480
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(480)
<223> n = A,T,C or G

```

```
<400> 47
```

```

tgccaacaag gaaagtttta aatttcccct tgaggattct tggatgatcat caaattcagt      60
ggtttttaag gttgttttct gtcaaataac tctaacttta agccaaacag tatatggaag      120
cacagataka atattacaca gataaaagag gagttgatct aaagtaraga tagttggggg      180
ctttaatttc tggaacctag gtctcccatc cttcttctgt gctgaggaac ttcttggaag      240
cggggattct aaagtctctt ggaagacagt ttgaaaacca ccatgttgtt ctcagtacct      300
ttatttttaa aaagtaggtg aacattttga gagagaaaag ggcttggttg agatgaagtc      360
ccccccccc cttttttttt ttttagctga aatagatacc ctatgttnaa rgaarggatt      420
attatttacc atgccaytar scacatgctc tttgatgggc nyctccstac cctccttaag      480

```

```

<210> 48
<211> 591
<212> DNA
<213> Homo sapien

```

```
<400> 48
```

```

aagagggtac cgagtggaat ttccgcttca ctagtctggt gtggctagtc ggtttcgtgg      60

```

tggccaacat	tacgaacttc	caactcaacc	gttcttggac	gttcaagcgg	gagtaccggc	120
gaggatggtg	gcgtgaattc	tggcctttct	ttgccgtggg	atcggtagcc	gccatcatcg	180
gtatgtttat	caagatcttc	tttactaacc	cgacctctcc	gatttacctg	cccgagccgt	240
ggtttaacga	ggggaggggg	atccagtcac	gogagtactg	gtcccagatc	ttcgccatcg	300
tcgtgacaat	gcctatcaac	ttcgtcgtca	ataagttgtg	gaccttccga	acggtgaagc	360
actccgaaaa	cgtccggtgg	ctgctgtgcg	gtgactccca	aaatcttgat	aacaacaagg	420
taaccgaatc	gcgctaagga	accccgcat	ctcgggtact	ctgcatatgc	gtaccctta	480
agccgaattc	cagcacactg	gcggccgtta	ctaattggat	ccgaactccg	taaccaagcc	540
tgatgcgtaa	cttgagttat	tctatagtgt	ccctaaaata	acctggcggt	a	591

&lt;210&gt; 49

&lt;211&gt; 454

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 49

aagagggtac	ctgccttgaa	atttaaattgt	ctaaggaaar	tgggagatga	ttaagagttg	60
gtgtggcyta	gtcacaccaa	aatgtattta	ttacatcctg	ctcctttcta	gttgacagga	120
aagaaagctg	ctgtggggaa	aggagggata	aatactgaag	ggatttacta	aacaaatgtc	180
catcacagag	ttttcctttt	tttttttttg	agacagagtc	ttgctctgtc	acccaggctg	240
gaatgaagwg	gtatgatctc	agttgaatgc	aacctctacc	tcctaggttc	aagcgattct	300
catgcctcag	cctcctgagc	agctgggact	ataggcgcat	gctaccatgc	caggctaatt	360
tttatatttt	tattagagac	ggggtgttgc	catgtttggc	aggcaggtct	cgaactcctg	420
ggcctcagat	gatctgcccc	accgtaccct	ctta			454

&lt;210&gt; 50

&lt;211&gt; 463

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 50

aagagggtac	caaaaaaaag	aaaaaggaaa	aaaagaaaaa	caacttgtat	aaggctttct	60
gctgcataca	gctttttttt	tttaaataaa	tggtgccaac	aaatgttttt	gcattcacac	120
caattgctgg	ttttgaaatc	gtactcttca	aaggtatttg	tgcagatcaa	tccaatagtg	180
atgccccgta	ggttttgtgg	actgcccacg	ttgtctacct	tctcatgtag	gagccattga	240
gagactgttt	ggacatgcct	gtgttcatgt	agccgtgatg	tccggggggc	gtgtacatca	300
tgttaccgtg	gggtggggtc	tgcattggct	gctgggcata	tggctgggtg	cccatcatgc	360
ccatctgcat	ctgcataggg	tattggggcg	tttgatccat	atagccatga	ttgctgtggt	420
agccactggt	catcattggc	tgggacatgc	tgttaccctc	tta		463

&lt;210&gt; 51

&lt;211&gt; 399

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 51

cttcaacctc	ccaaagtgtc	gggattacag	gactgagcca	ccacgctcag	cctaagcctc	60
tttttcacta	ccctctaagc	gatctaccac	agtgatgagg	ggctaaagag	cagtgcaatt	120
tgattacaat	aatggaaact	agatttatta	attaacaatt	tttccttagc	atgttggttc	180
cataattatt	aagagtatgg	acttacttag	aaatgagctt	tcattttaag	aatttcatct	240
ttgaccttct	ctattagtct	gagcagtatg	acactatacg	tattttattt	aactaaccta	300
ccttgagcta	ttacttttta	aaaggctata	tacatgaatg	tgtattgtca	actgtaaagc	360
cccacagtat	ttaattatat	catgatgtct	ttgagggtg			399

<210> 52  
 <211> 392  
 <212> DNA  
 <213> Homo sapien

<400> 52  
 cttcaacctc aatcaacctt ggtaattgat aaaatcatca ctttaactttc tgatataatg 60  
 gcaataatta tctgagaaaa aaaagtgggtg aaagattaaa cttgcatttc tctcagaatc 120  
 ttgaaggata tttgaataat tcaaaagcgg aatcagtagt atcagccgaa gaaactcact 180  
 tagctagaac gttggaccca tggatctaag tccctgccct tccactaacc agctgatttg 240  
 ttttgtgtaa acctcctaca cgcttgggct tggtcgcctc atttgtcaaa gtaaaggctg 300  
 aaataggaag ataatgaacc gtgtcttttt ggtctctttt ccatccatta ctctgatttt 360  
 acaaagaggc ctgtattccc ctggtgaggt tg 392

<210> 53  
 <211> 179  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(179)  
 <223> n = A,T,C or G

<400> 53  
 ttccgggtgat gcctcctcag gctacagtga agactggatt acagaaaggt gccagcgaga 60  
 tttcagattc ctgtaaacct cttaaagaaa ggagtcgcgc ctcaactgat gtagaaatga 120  
 ctagttcagc atacngagac acntctgact ccgattctag aggactgagt gacctgcan 179

<210> 54  
 <211> 112  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(112)  
 <223> n = A,T,C or G

<400> 54  
 ttccgggtgat gcctcctcag gctacatcat natagaagca aagtagaana atcnngtttg 60  
 tgcattttcc cacanacaaa attcaaatga ntggaagaaa ttggganagt at 112

<210> 55  
 <211> 225  
 <212> DNA  
 <213> Homo sapien

<400> 55  
 tgagcttccg cttctgacaa ctcaatagat aatcaaagga caactttaac agggattcac 60  
 aaaggagtat atccaaatgc caataaacat ataaaaagga attcagcttc atcatcatca 120  
 gaagwatgca aattaaacc ataataagaa accactatgt cccactagaa tagataaaat 180  
 cttaaaagac tggtaaaacc aagtgttgggt aaggcaagag gagca 225



<210> 56  
 <211> 175  
 <212> DNA  
 <213> Homo sapien

<400> 56  
 gctcctcttg ccttaccaac acattctcaa aaacctgtta gagtcctaag cattctcctg 60  
 ttagtattgg gattttaccc ctgtcctata aagatgttat gtaccaaaaa tgaagtggag 120  
 ggccataccc tgaggaggagg gagggatctc tagtgttgtc agaagcggaa gctca 175

<210> 57  
 <211> 223  
 <212> DNA  
 <213> Homo sapien

<400> 57  
 agccattttac caccatgga tgaatggatt ttgtaattct agctgttgta ttttgtgaat 60  
 ttgttaattt tgttgttttt ctgtgaaaca catacattgg atatgggagg taaaggagt 120  
 tcccagttgc tcctggtcac tccctttata gccattactg tcttgtttct tgtaactcag 180  
 gttaggtttt ggtctctctt gctccactgc aaaaaaaaaa aaa 223

<210> 58  
 <211> 211  
 <212> DNA  
 <213> Homo sapien

<400> 58  
 gttcgaagggt gaacgtgtag gtagcggatc tcacaactgg ggaactgtca aagacgaatt 60  
 aactgacttg gatcaatcaa atgtgactga ggaaacacct gaaggtgaag aacatcatcc 120  
 agtggcagac actgaaaata aggagaatga agttgaagag gtaaaagagg aggggccaaa 180  
 agagatgact ttggatgggt ggtaaatggc t 211

<210> 59  
 <211> 208  
 <212> DNA  
 <213> Homo sapien

<400> 59  
 gctcctcttg ccttaccaac tttgcaccca tcatcaacca tgtggccagg tttgcagccc 60  
 aggtctgaca tcaggggact gcctcgcaat acttcatgct gttgctgctg actgatggtg 120  
 ctgtgacgga tgtggaagcc acacgtgagg ctgtggtgcg tgccctgaac ctgcccattg 180  
 cagtgatcat tatgggtggt aaatggct 208

<210> 60  
 <211> 171  
 <212> DNA  
 <213> Homo sapien

<400> 60  
 agccattttac caccataact aaattctagt tcaaactcca acttcttcca taaaacatct 60  
 aaccactgac accagttggc aatagcttct tcttcttta acctcttaga gtatttatgg 120  
 tcaatgccac acatttctgc aactgaataa agttggtaag gcaagaggag c 171

<210> 61

<211> 134  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(134)  
 <223> n = A,T,C or G

<400> 61  
 cggggtgatgc ctcctcaggc tttaggtgtgt ccactcnact cactggcctc ttctccagca 60  
 actggtgaan atgtcctcan gaaaancncc acacgcngct caggggtggg tggaancat 120  
 canaatcatc nggc 134

<210> 62  
 <211> 145  
 <212> DNA  
 <213> Homo sapien

<400> 62  
 agaggggtaca tatgcaacag tatataaagg aagaagtgca ctgagaggaa cttcatcaag 60  
 gccatttaat caataagtga tagagtcaag gctcaaccga ggtgtgacgg attccaggtc 120  
 ccaagtcctt tactggtacc ctctt 145

<210> 63  
 <211> 297  
 <212> DNA  
 <213> Homo sapien

<400> 63  
 tgcactgaga ggaattcaaa gggtttatgc caaagaacaa accagtcctc tgcagcctaa 60  
 ctcatctgtt tttgggctgc gaagccatgt agagggcgat caggcagtag atggtccctc 120  
 ccacagtcag cgccatggtg gtccggtaaa gcatttggtc aggcaggcct cgtttcaggc 180  
 agacgggcac acatcagctt tctggaaaaa cttttgtagc tctggagctt tgtttttccc 240  
 agcataatca tacactgttg aatcggagggt cagtttagtt ggtaaggcaa gaggagc 297

<210> 64  
 <211> 300  
 <212> DNA  
 <213> Homo sapien

<400> 64  
 gcactgagag gaacttccaa tactatgttg aataggagtg gtgagagagg gcatccttgt 60  
 cttgtgccgg ttttcaaagg gaatgcttcc agcttttgcc cattcagtat aatattaaag 120  
 aatgttttac cattttctgt cttgcctgtt tttctgtgtt tttgttggtc tcttcattct 180  
 ccatttttag gcctttacat gtttaggaata tatttccttt aatgatactt cacctttggt 240  
 atcttttgtg agactctact catagtgtga taagcactgg gttggttaagg caagaggagc 300

<210> 65  
 <211> 203  
 <212> DNA  
 <213> Homo sapien

<400> 65

gctcctcttg	ccttaccaac	tcacccagta	tgtcagcaat	tttatcrgct	ttacctacga	60
aacagcctgt	atccaaacac	ttaacacact	cacctgaaaa	gttcaggcaa	caatgcctt	120
ctcatgggtc	tctctgctcc	agttctgaac	ctttctcttt	tcctagaaca	tgcatttarg	180
tcgatagaag	ttcctctcag	tgc				203

<210> 66  
 <211> 344  
 <212> DNA  
 <213> Homo sapien

<400> 66						
tacggggacc	cctgcattga	gaaagcgaga	ctcactctga	agctgaaatg	ctggtgcoct	60
tgcagtgtg	gtagcaggag	ttctgtgctt	tgtgggctaa	ggctcctgga	tgacccctga	120
catggagaag	gcagagttgt	gtgccccttc	tcattggcctc	gtcaaggcat	catggactgc	180
cacacacaaa	atgccgtttt	tattaacgac	atgaaattga	aggagagAAC	acaattcact	240
gatgtggctc	gtaacctatg	atatggtcac	atacagaggt	gtgattatgt	aaagggttaat	300
tccaccacc	tcattgtgga	actagcctca	atgcaggggt	ccca		344

<210> 67  
 <211> 157  
 <212> DNA  
 <213> Homo sapien

<400> 67						
gcactgagag	gaacttcgta	gggaggttga	actggctgct	gaggaggggg	aacaacaggg	60
taaccagact	gatagccatt	ggatggataa	tatggtgggt	gaggaggagc	actacttata	120
gcagaggggt	gtgtatagcc	tgaggaggca	tcacccg			157

<210> 68  
 <211> 137  
 <212> DNA  
 <213> Homo sapien

<400> 68						
gcactgagag	gaacttctag	aaagtgaaag	tctagacata	aaataaaata	aaaattttaa	60
actcaggaga	gacagcccag	cacggtggct	cacgcctgta	atcccagaac	tttgggagcc	120
tgaggaggca	tcacccg					137

<210> 69  
 <211> 137  
 <212> DNA  
 <213> Homo sapien

<400> 69						
cgggtgatgc	ctcctcaggc	tgtattttga	agactatcga	ctggacttct	tatcaactga	60
agaatccgtt	aaaaatacca	gttgtattat	ttctacctgt	caaaatccat	ttcaaatgtt	120
gaagttcctc	tcagtgc					137

<210> 70  
 <211> 220  
 <212> DNA  
 <213> Homo sapien

<220>

<400> 70

&lt;210&gt; 71

<211> 353

<212> DNA

<213> Homo sapien

 $\langle 220 \rangle$ 

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (353)$ 

<223> n = A, T, C or G

<400> 71

cgttaggggtc	tctatccact	gctaaaccat	acacctgggt	aaacagggac	catttaacat	60
ttccanctaa	atatgccaa	tgacttcaca	tgtttatctt	aaagatgtcc	aaaacgcaac	120
tgattttctc	ccctaaacct	gtgatgggtg	gatgattaan	cctgagtgt	ctacagcaag	180
ttaagtgcaa	ggtgctaaat	gaangtgacc	tgagatacac	catctacaag	gcagtaacctc	240
tcaacncagg	gcaactttgc	ttctcanag	gcatttagca	gtgtctgaag	tattttctgt	300
attacaactc	acggggcggg	gggtgaatat	ctantggana	gnagacccta	acg	353

<210> 72

<211> 343

<212> DNA

<213> Homo sapien

<400> 72

gcactgagag	gaacttccaa	tacyatkatc	agagtgaaca	rgcarccyac	agaacaggag	60
aaaaatgttyg	caatctctcc	atctgacaaa	aggctaatat	ccagawtcta	awaggaactt	120
aaacaatttt	atgagaaaag	aacaracaac	ctcawcaaaa	agtgggtgaa	ggawatgcts	180
aaargaagac	atytattcag	ccagtaaaca	yatgaaaaaa	aggctcatsa	tactgawca	240
ttagagaaat	gcaaatcaaa	accacaatga	gataccattc	yayrccagtt	agaaygggtga	300
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<210> 73

<211> 321

<212> DNA

<213> Homo sapien

 $\langle 220 \rangle$ 

<221> misc feature

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<223> n = A, T, C or G

<400> 73

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tcaaagttcc	catgctgcc	aagtgccatc	ctttggggta	ctgttttctg	agctccagtg	180
ataactcatt	tatacaagg	agatacccag	aaaaaaagt	agcaaattct	aaaaagggtg	240
cttgagttca	gccttaaata	ccatcttgaa	atgacacaga	gaaagaanga	tggtgggtgg	300
gagtggatag	agaccctaac	g				321

&lt;210&gt; 74

&lt;211&gt; 321

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 74

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tcaaagttcc	catgctgcc	aagtgccatc	ctttggggta	ctgttttctg	agctccagtg	180
ataactcatt	tatacaagg	agatacccag	aaaaaaagt	agcaaattct	aaaaagggtg	240
cttgagttca	gycctaaata	ccatcttgaa	atgamacaga	gaaagaagga	tggtgggtgg	300
gagtggatag	agaccctaac	g				321

&lt;210&gt; 75

&lt;211&gt; 317

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 75

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agtcagataa	ccttagcttc	ctcatatgca	aaatgagaat	gaaaagtact	catcgctgaa	180
ttgtttttgag	gattagaaaa	acatctggca	tgcagtagaa	attcaattag	tattcatttt	240
cattctttcta	aattaaacaa	ataggatttt	tagtggtgga	acttcagaca	ccagaaatgg	300
gagtggatag	agaccct					317

&lt;210&gt; 76

&lt;211&gt; 244

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 76

cgttagggtc	tctatccact	cccactactg	atcaaactct	atttatttaa	ttatttttat	60
catactttta	gttctgggat	acacgtgcag	catgcgcagg	tttggttgc	aggtatacac	120
ttgccatggt	ggtttgctgc	acccatcagt	ccatcatcta	cattaggtat	ttctccta	180
gctatccctc	ccctagcccc	ttacaccccc	aacaggctct	agtgtgtgaa	gttcctctca	240
gtgc						244

&lt;210&gt; 77

&lt;211&gt; 254

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 77

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gataataaag	gttaatatta	ataatgattt	attttaaggc	attcccraat	ttgcataatt	180
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gttcctctca	gtgc					254

<210> 78  
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 <212> DNA  
 <213> Homo sapien  
  
 <220>  
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 cctgagggga cgcaggaccc ttatgaccct cagaatcttc acaacgggag atggcactgg 180  
 attgantccc antgacacca gagacacccc aaccaccagn atatcantat attgatgtag 240  
 ttctgttaga nggccccctt gtggaggaaa gctccatnag ttggatcatct tcaacaggat 300  
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 <211> 406  
 <212> DNA  
 <213> Homo sapien

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 cccagtgac agctaggatg tgcattctcc agccatcaag agactgagtc aagttgttcc 180  
 ttaagtcaga acagcagact cagctctgac attctgattc gaatgacact gttcaggaat 240  
 cggaatcctg tcgattagac tggacagcct gtggcaagtg aatttgctg taacaagcca 300  
 gatttttttaa aatttatatt gtaaataatg tgtgtgtgtg tgtgtgtata tatatatata 360  
 tgtacagtta tctaagttaa tttaaaagtt gtttggtacc ctctta 406

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 tgtagggtc atggtagggg taaaaggagg gcaatttcta gatcaaataa taagaaggta 180  
 atagctacta agaagaattt tatggagaaa gggacgcggg cgggggatat agggtcgaag 240  
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 ataattatta gtagtaagcc taggaga 327

<210> 81  
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 <212> DNA  
 <213> Homo sapien

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catgcttttt	atgttttgtc	tgacataaac	tcttatraga	gcccttttga	cacagggatt	180
caataaatat	taacacagtc	tacattttatt	tggatgaatat	tgcataatctg	ctgtactgaa	240
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atgattgcgc	atagacta					318

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 <213> Homo sapien

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ctgatcaaat	atcactctcc	tacttacagg	actcaacata	ctagtccacag	ccctatactc	180
cctctacata	tttaccacaa	cacaatgggg	ctcactcacc	caccacatta	acaacataaa	240
accctcattc	acacgagaaa	acaccctcat	gttcatacac	ctatcccca	ttctcctct	300
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 <213> Homo sapien

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<210> 84  
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 <212> DNA  
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tgaggtggat	tcacgagttg	cggacaactc	ctttgatgcc	aagcgaggtg	cagccggaga	180
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<210> 85  
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gagcagactt	gtaacactct	twttgtggaa	tttgcaagtg	gagatttcag	scgctttgaa	180
gtsaaaggta	gaaaaggaaa	tatcttccta	taaaaactag	acagaatgat	tctcagaaac	240
tcctttgtga	tgtgtgcgtt	caactcacag	agtttaacct	ttcwtttcat	agaagcagtt	300
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<210> 86  
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<213> Homo sapien

<400> 86

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tttgwggycw wysktmgaaw mggrwatatc ttcwyatmra amctagacag aaksattctc      180
akaawstyyy ytgtagawgs tgcrttcaac tcacagagkt kaacmwtict kytsatrgag      240
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<220>

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<210> 88

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<210> 89

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<400> 89

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<210> 91



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<210> 106

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<210> 133  
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<210> 134

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<220>

<223> Predicited HLA A2.1 Motifs (T-cell epitopes)

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<212> PRT

<213> Artificial Sequence

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<223> Predicited HLA A2.1 Motifs (T-cell epitopes)

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<221> VARIANT

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<211> 9

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<211> 9

<212> PRT

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<211> 9

<212> PRT

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Phe Val Ala Gln Ala Ala Pro Asp Ser  
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<211> 9388

<212> DNA

<213> Homo sapien

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&lt;211&gt; 419

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 142

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&lt;211&gt; 402

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 143

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&lt;210&gt; 144

&lt;211&gt; 224

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 144

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&lt;210&gt; 145

&lt;211&gt; 111

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 145

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&lt;210&gt; 146

&lt;211&gt; 585

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 146

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&lt;210&gt; 147

&lt;211&gt; 579

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(579)

<400> 147

<210> 148

<212> DNA

<213> Homo sapien

<400> 148

<210> 149

<211> 255

<212> DNA

<213> Homo sapien

<400> 149

<210> 150

<211> 318

<212> DNA

<213> Homo sapien

<400> 150

<210> 151

$\langle 211 \rangle$  323

<212> DNA



<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(323)

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<400> 151

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<211> 311

<212> DNA

<213> Homo sapien

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<211> 332

<212> DNA

<213> Homo sapien

<400> 153

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<210> 154

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<213> Homo sapien

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<222> (1)...(345)

<223> n = A,T,C or G

<400> 154

tcaagattcc	ataggctgac	ctggacagag	atctcctggg	tctggcccag	gacagcaggc	60
tcaagctcag	tggagaaggt	ttccatgacc	ctcagattcc	cccaaacctt	ggattgggtg	120

```

acattgcatc tcctcagaga gggaggagat gtangtctgg gcttccacag ggacctggta 180
ttttaggatc agggtagcgc tggcctgagg cttggatcat tcanagcctg ggggtggaat 240
ggctggcagc ctgtggcccc attgaaatag gctctggggc actccctctg ttcctanttg 300
aacttgggta aggaacagga atgtggtcan cctatggaat cttga 345

```

```

<210> 155
<211> 295
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

```

```

<400> 155
gacgcttggc cacttgacac attaaacagt tttgcataat cactancatg tattttctagt 60
ttgctgtctg ctgtgatgcc ctgcctgat tctctggcgt taatgatggc aagcataatc 120
aaacgctggt ctgttaattc caagttataa ctggcattga ttaaagcatt atctttcaca 180
actaaactgt tcttcatana acagcccata ttattatcaa attaagagac aatgtattcc 240
aatatccttt anggccaata tatttnatgt cccttaatta agagctactg tccgt 295

```

```

<210> 156
<211> 406
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(406)
<223> n = A,T,C or G

```

```

<400> 156
gacgcttggc cacttgacac tgcagtggga aaaccagcat gagccgctgc cccaaggaa 60
cctcgaagcc caggcagagg accagccatc ccagcctgca ggtaaagtgt gtcacctgtc 120
aggtgggctt ggggtgagtg ggtgggggaa gtgtgtgtgc aaaggggggtg tnaatgtnta 180
tgcgtgtgag catgagtgat ggctagtgtg actgcatgtc agggagtgtg aacaagcgtg 240
cgggggtgtg tgtgcaagtg cgtatgcata tgagaatatg tgtctgtgga tgagtgcatt 300
tgaaagtctg tgtgtgtgcg tgtggtcatg anggtaantt antgactgcg caggatgtgt 360
gagtgtgcat ggaacactca ntgtgtgtgt caagtggccn ancgtc 406

```

```

<210> 157
<211> 208
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(208)
<223> n = A,T,C or G

```

```

<400> 157
tgacgcttgg ccacttgaca cactaaaggg tgttactcat cactttcttc tctcctcggt 60
ggcatgtgag tgcattctatt cacttggcac tcatttgttt ggcagtgact gtaanccana 120

```

tctgatgcat acaccagctt gtaaattgaa taaatgtctc taatactatg tgctcacaat 180  
 anggtanggg tgaggagaag gggagaga 208

<210> 158  
 <211> 547  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(547)  
 <223> n = A,T,C or G

<400> 158  
 cttcaacctc cttcaacctc cttcaacctc ctggattcaa acaatcatcc cacctcagac 60  
 tccttagtag ctgagactac agactcacgc cactacatct ggctaaatth ttgtagagat 120  
 agggtttcat catgttgccc tggttggtct caaactcctg acctcaagca atgtgcccac 180  
 ctgagcctcc caaagtgtct ggattacagg cataagccac catgcccagt ccatntttaa 240  
 tctttcctac cacattctta ccacactttc ttttatgttt agatacataa atgcttacca 300  
 ttatgataca atgtcccaca gtattaagac agtaacatgc tgcacagggt tgtagcctag 360  
 gaacagtagg caataccaca tagcttaggt gtgtggtaga ctataccatc taggtttgtg 420  
 taagttacac tttatgtctg ttacacaatg acaaaacat ctaatgatgc atttctcaga 480  
 atgtatcctt gtcagtaagc tatgatgtac agggaacact gcccaaggac acagatattg 540  
 tacctgt 547

<210> 159  
 <211> 203  
 <212> DNA  
 <213> Homo sapien

<400> 159  
 gctcctcttg ccttaccac tcacccagta tgtcagcaat tttatcrgct ttacctacga 60  
 aacagcctgt atccaaacac ttaacacact cacctgaaaa gttcaggcaa caatcgctt 120  
 ctcatgggtc tctctgtctc agttctgaac ctttctcttt tctagaaca tgcatttarg 180  
 tcgatagaag ttcctctcag tgc 203

<210> 160  
 <211> 402  
 <212> DNA  
 <213> Homo sapien

<400> 160  
 tgtaagtcga gcagtgtgat ggggtggaaca ggggttgtaag cagtaattgc aaactgtatt 60  
 taaacaataa taataatatt tagcatttat agagcacttt atatcttcaa agtacttgca 120  
 aacattayct aattaaatc cctctctgat tataatctgg atacaaatgc acttaaaactc 180  
 aggacagggt catgagaraa gtatgcattt gaaagttggt gctagctatg ctttaaaaaac 240  
 ctatacaatg atgggraagt tagagttcag attctgttgg actgtttttg tgcatttcag 300  
 ttcagcctga tggcagaatt agatcatatc tgcactcgat gactytgctt gataacttat 360  
 cactgaaatc tgagtgttga tcatcacact gctcgactta ca 402

<210> 161  
 <211> 193  
 <212> DNA  
 <213> Homo sapien

```

<400> 161
agcatgttga gccagacac tgaccaggag aaaaaccaac caatagaaac acgcccagac      60
actgaccagg agaaaaacca accaataaaa acaggcccgg acataagaca aataataaaa      120
ttagcggaca aggacatgaa aacagctatt gtaagagcgg atatagtggg gtgtgtctgg      180
gctcaacatg cta                                                              193

```

```

<210> 162
<211> 147
<212> DNA
<213> Homo sapien

```

```

<400> 162
tggtgagccc agacactgac caggagaaaa accaaccaat aaaaacaggc ccggacataa      60
gacaaataat aaaattagcg gacaaggaca tgaaaacagc tattgtaaga gcgcatatag      120
tggtgtgtgt ctgggctcaa catgcta                                          147

```

```

<210> 163
<211> 294
<212> DNA
<213> Homo sapien

```

```

<400> 163
tagcatgttg agcccagaca caaatctttc cttaagcaat aaatcatttc tgcatatgtt      60
tttaaaacca cagctaagcc atgattattc aaaaggacta ttgtattggg tattttgatt      120
tgggttctta tctccctcac attatcttca tttctatcat tgacctctta tcccagagac      180
tctcaaactt ttatgttata caaatcacat tctgtctcaa aaaatatctc acccattct      240
cttctgtttc tgcgtgtgta tgtgtgtgtg tgtgtgtctg ggctcaacat gcta          294

```

```

<210> 164
<211> 412
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(412)
<223> n = A,T,C or G

```

```

<400> 164
cgggattggc tttgagctgc agatgctgcc tgtgaccgca cccggcgtgg aacagaaagc      60
cacctggctg caagtgcgcc agagccgccc tgactacgtg ctgctgtggg gctggggcgt      120
gatgaactcc accgccctga aggaagccca ggccaccgga taccgccgac acaagatgta      180
cggcgtgtgg tgggccggtg cggagcccca tgtgcgtgac gtgggcgaag gcgccaaggg      240
ctacaacgcg ctggctctga acggctacgg cacgcagtcc aaggtgatcc angacatcct      300
gaaacacgtg cagacaagg gccagggcac ggggcccaaa gacgaagtgg gctcgtgtgt      360
gtacaccgac ggctgatca tccagatgct ggacaagggt tcaatcacta at              412

```

```

<210> 165
<211> 361
<212> DNA
<213> Homo sapien

```

```

<400> 165

```

```

ttgacacctt gtccagcatc tgcattctgat gagagcctca gatggctacc actaatggca      60
gaaggcaaaag gagaacaggc attgtatggc aagaaaggaa gaaagagaga ggggagaaaag      120
gtgctagggtt cttttcaaca accagttctt gatggaactg agagtaagag ctcaaggcca      180
ggtgtggtga ctccaaccag taatccaac attttaggag gctgaggcag gcagatgtct      240
tgaccccatg agtttgtgac cagcctgaac aacatcatga gactccatct ctacaataat      300
tacaaaaatt aatcaggcat tgtggtatgc cctgtagtcc cagatgctgg acaaggtgtc      360
a

```

```

<210> 166
<211> 427
<212> DNA
<213> Homo sapien

```

```

<400> 166
twgactgact catgtccctt acacccaact atcttctcca ggtggccagg catgatagaa      60
tctgatcctg acttagggga atattttctt tttacttccc atcttgattc cctgccggtg      120
agtttcctgg ttcagggtaa gaaaggagct caggccaaag taatgaacaa atccatcctc      180
acagacgtac agaataagag aacwtggacw tagccagcag aacmcaaktg aaamcagaac      240
mcttamctag gatracaamc merraratar ktgcycmcmc wtataataga aaccaaactt      300
gtatctaatt aaatatattat ccacygtcag ggcatttagt gttttgataa atacgctttg      360
gctaggattc ctgagggttag aatggaaraa caattgcamc gagggtaggg gacatgagtc      420
aktctaa

```

```

<210> 167
<211> 500
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(500)
<223> n = A,T,C or G

```

```

<400> 167
aacgtcgcac gctcccggcc gccatggccg cgggatagac tgactcatgt cccctaagat      60
agaggagaca cctgctagggt gtaaggagaa gatggttagg tctacggagg ctccagggtg      120
ggagttagttc cctgctaagg gagggtagac tgttcaacct gttcctgctc cggcctccac      180
tatagcagat gcgagcagga gtaggagaga gggaggtaag agtcagaagc ttatgttgtt      240
tatgcgggga aacgccttat cgggggcagc cragttatta ggggacantr tagwyartcw      300
agntagcatc caaagcgngg gagttntccc atatggttgg acctgcaggc ggccgcatta      360
gtgattagca tgtgagcccc agacacgcat agcaacaagg acctaaactc agatcctgtg      420
ctgattactt aacatgaatt attgtattta tttaacaact ttgagttatg aggcatatta      480
ttaggtccat attacctgga

```

```

<210> 168
<211> 358
<212> DNA
<213> Homo sapien

```

```

<400> 168
ttcatcgctc ggtgactcaa gcctgtaatc ccagaacttt gggaggccga ggggagcaga      60
tcacctgagg ttgggagttt gagaccagcc tggccaacat ggtgacaacc cgtctctgct      120
aaaaatacaa aaattagcca agcatggttg catgcacttg taatcccagc tactcgggag      180
gctgaggcag gagaatcact tgaggccagg aggcagaggt tgcagtgagg cagaggttga      240

```

gatcatgcc	ctgcactcca	gcctgggcaa	cagagtaaga	ctccatctca	aaaaaaaaa	300
aaaaaaaaa	tgatcagagc	cacaaatata	gaaaaccttg	agtcaccgag	cgatgaaa	358

<210> 169  
 <211> 1265  
 <212> DNA  
 <213> Homo sapien

<400> 169

ttctgtccac	accaatctta	gagctctgaa	agaatttgtc	tttaaataatc	ttttaaatagt	60
aacatgtatt	ttatggacca	aattgacatt	ttcgactatt	ttttcccaaa	aaaagtcagg	120
tgaatttcag	cacactgagt	tgggaatttc	ttatcccaga	agwccgcacg	agcaatttca	180
tattttattta	agattgatto	catactccgt	tttcaaggag	aatccctgca	gtctccttaa	240
aggtagaaca	aatactttct	atTTTTTTTT	caccattgtg	ggattggact	ttaagagggtg	300
actctaaaaa	aacagagaac	aaatatgtct	cagttgtatt	aagcacggac	ccatattatc	360
atattcactt	aaaaaaatga	tttcctgtgc	accttttggc	aacttctctt	ttcaatgtag	420
ggaaaaactt	agtcaccctg	aaaaccacaca	aaataaataa	aacttgtaga	tgtgggcaga	480
argtttgggg	gtggacattg	tatgtgttta	aattaaacc	tgtatcactg	agaagctggt	540
gtatgggtca	gagaaaatga	atgcttagaa	gctgttcaca	tcttcaagag	cagaagcaaa	600
ccacatgtct	cagctatat	attatattt	ttttatgcat	aaagtgaatc	atttcttctg	660
tattaatttc	caaagggttt	taccctctat	ttaaatgctt	tgaaaaacag	tgcattgaca	720
atgggttgat	atTTTTCTTT	aaaagaaaaa	tataattatg	aaagccaaga	taatctgaag	780
cctgttttat	tttaaaactt	tttatgttct	gtggttgatg	ttgtttgttt	gtttgtttct	840
atTTTgttgg	TTTTTTactt	tgtTTTTTgt	tttgttttgt	tttggtttdg	catactacat	900
gcagtttctt	taaccaatgt	ctgTTTggct	aatgtaatta	aagttgttaa	tttatatgag	960
tgcatttcaa	ctatgtcaat	ggTTTcttaa	tatttattgt	gtagaagtac	tggtaatttt	1020
tttattttca	atatgtttta	agagataaca	gtttgatatg	ttttcatgtg	tttatagcag	1080
aagttattta	tttctatggc	attccagcgg	atattttggt	gtttgcgagg	catgcagtca	1140
atattttgta	cagtttagtg	acagtattca	gcaacgcctg	atagcttctt	tggccttatg	1200
ttaaataaaa	agacctgttt	gggatgtaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	1260
aaaaa						1265

<210> 170  
 <211> 383  
 <212> DNA  
 <213> Homo sapien

<400> 170

tgtaagtcga	gcagtgtgat	gacgatattc	ttcttattaa	tgtggtaatt	gaacaaatga	60
tctgtgatac	tgatcctgag	ctaggaggcg	ctgttcagtt	aatgggactt	cttcgtactc	120
taattgatcc	agagaacatg	ctggctacaa	ctaataaaac	cgaaaaaagt	gaattttctaa	180
atTTTTtcta	caaccattgt	atgcatgttc	tcacagcacc	acttttgacc	aatacttcag	240
aagacaaatg	tgaaaaggat	aatatagtgt	gatcaaacaa	aaacaacaca	atttgtcccg	300
ataattatca	aacagcacag	ctacttgect	taattttaga	gttactcaca	ttttgtgtgg	360
aacatcacac	tgctcgactt	aca				383

<210> 171  
 <211> 383  
 <212> DNA  
 <213> Homo sapien

<400> 171

tgggcacctt	caatatcgca	agttaaaaaat	aatgttgagt	ttattatact	tttgacctgt	60
ttagctcaac	agggtgaagg	catgtaaaga	atgtggactt	ctgaggaatt	ttctttttaaa	120

aagaacataa	tgaagtaaca	ttttaattac	tcaaggacta	cttttggttg	aagtttataa	180
tctagatacc	tctacttttt	gtttttgctg	ttcgacagtt	cacaaagacc	ttcagcaatt	240
tacagggtaa	aatcggtgaa	gtagtgagg	tgaaactgaa	atttaaaatt	attctgtaaa	300
tactataggg	aaagaggctg	agcttagaat	cttttggttg	ttcatgtgtt	ctgtgctctt	360
atcatcacac	tgctcgactt	aca				383

&lt;210&gt; 172

&lt;211&gt; 699

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(699)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 172

tcgggtgatg	cctcctcagg	cttgctgtta	gtgtacacag	agctgctcat	gaagcgacag	60
cggctgcccc	tggcacttca	gaacctcttc	ctctacactt	ttggtgcgct	tctgaatcta	120
ggtctgcatg	ctggcgggcg	ctctggccca	ggcctcctgg	aaagtttctc	aggatgggca	180
gcaactcggtg	tgctgagcca	ggcaactaaat	ggactgctca	tgtctgctgt	catggagcat	240
ggcagcagca	tcacacgcct	ctttgtgttg	tcctgctcgc	tggtggtcaa	cgccgtgctc	300
tcagcagtc	tgctacggct	gcagctcaea	gccgccttct	tcctggccac	attgctcatt	360
ggcctggcca	tgcgccgtga	ctatggcagc	cgtagtccc	tgacaacttc	caccctgatt	420
ccggaccctg	tagattgggc	gccaccacca	gatccccctc	ccaggccttc	ctccctctcc	480
catcagcggc	cctgtaacaa	gtgccttgtg	agaaaagctg	gagaagtga	ggcagccagg	540
ttattctctg	gaggttggtg	gatgaagggg	tacccttagg	agatgtgaag	tgtgggttg	600
gttaaggaaa	tgcttaccat	ccccaccccc	caaccaagtt	nttcagact	aaagaattaa	660
ggtaacatca	atacctaggc	ctgaggaggc	atcacccga			699

&lt;210&gt; 173

&lt;211&gt; 701

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 173

tcgggtgatg	cctcctcagg	ccagatcaaa	cttgggggttg	aaaactgtgc	aaagaaatca	60
atgtcggaga	aagaattttg	caaaagaaaa	atgcctaata	agtactaatt	taataggatca	120
cattagcagt	ggaagaagaa	atgttgatat	tttatgtcag	ctattttata	atcaccagag	180
tgcttagctt	catgtaagcc	atctcgtatt	cattagaaat	aagaacaatt	ttattcgtcg	240
gaaagaactt	ttcaatttat	agcatcttaa	ttgtcagga	ttttaaattt	tgataaagaa	300
agctccactt	ttggcaggag	tagggggcag	ggagagagga	ggctccatcc	acaaggacag	360
agacaccagg	gccagtaggg	tagctgggtg	ctggatcagt	cacaacggac	tgacttatgc	420
catgagaaga	aacaacctcc	aaatctcagt	tgcttaatac	aacacaagct	catttcttgc	480
tcacgttaca	tgctctatgt	agatcaacag	caggtgactc	agggacccag	gctccatctc	540
catatgagct	tccatagtca	ccaggacacg	ggctctgaaa	gtgtcctcca	tcaggggaca	600
catgctctt	cctttcattg	ggcagagcaa	gtcacttatg	gccagaagtc	acactgcagg	660
gcagtgccat	cctgctgtat	gcctgaggag	gcatacccg	a		701

&lt;210&gt; 174

&lt;211&gt; 700

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(700)  
 <223> n = A,T,C or G

<400> 174

tcgggtgatg	cctcctcang	cccctaaatc	agagtccagg	gtcagagcca	caggagacag	60
ggaaagacat	agattttaac	cggccccctt	caggagattc	tgaggctcag	ttcactttgt	120
tgcagtttga	acagaggcag	caaggctagt	ggttaggggc	acggctctta	aagctgcact	180
gcctggatct	gcctcccagc	tctgccagga	accagctgcg	tggccttgag	ctgctgacac	240
gcagaaagcc	ccctgtggac	ccagtctcct	cgtctgtaag	atgaggacag	gactctagga	300
accctttccc	ttggtttggc	ctcactttca	caggctccca	tcttgaactc	tatctactct	360
tttctgaaa	ccttgtaaaa	gaaaaaagtg	ctagcctggg	caacatggca	aaaccctgtc	420
tctacaaaa	atacaaaaat	tagttgggtg	tggtagcatg	tgcctgtagt	cccagccact	480
tgggaggtgc	tgaggtggga	ggatcacttg	agcccgaggag	gtggaggttg	cagtgcagca	540
agatcatgcc	actgcactcc	agcctgagta	atagagtaag	actctgtctc	aaaaacaaca	600
acaacaacag	tgagtgtgcc	tctgtttccg	ggttggatgg	ggcaccacat	ttatgcatct	660
ctcagatttg	gacgctgcag	cctgaggagg	catcaccgca			700

<210> 175  
 <211> 484  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(484)  
 <223> n = A,T,C or G

<400> 175

tatagggcga	attggggccc	agttgcatgn	tcccggccgc	catggccgcg	ggattcgggt	60
gatgcctcct	caggcttgct	tgccacaagc	tacttctctg	agctcagaaa	gtgccccttg	120
atgagggaaa	atgtcctact	gcactgcgaa	tttctcagtt	ccattttacc	tcccagtcct	180
ccttctaaac	cagttaataa	attcattcca	caagtattta	ctgattacct	gcttggtgcca	240
gggactattc	tcaggctgaa	gaaggtggga	ggggagggcg	gaacctgagg	agccacctga	300
gccagcttta	tatttcaacc	atggctggcc	catctgagag	catctcccca	ctctcgccaa	360
cctatcgggg	catagcccag	ggatgcccc	aggcgcccca	ggttagatgc	gtccctttgg	420
cttgctcagt	atgacatata	ccttagctgc	ttagctggtg	ctggcctgag	gaggcatcac	480
ccga						484

<210> 176  
 <211> 432  
 <212> DNA  
 <213> Homo sapien

<400> 176

tcgggtgatg	cctcctcagg	gctcaaggga	tgagaagtga	cttctttctg	gagggaccgt	60
tcatgccacc	caggatgaaa	atggataggg	acccacttgg	aggacttgct	gatatgtttg	120
gacaaatgcc	aggtagcgga	attggtactg	gtccaggagt	tatccaggat	agattttcac	180
ccaccatggg	acgtcatcgt	tcaaataaac	tcttcaatgg	ccatggggga	cacatcatgc	240
ctccacacac	atcgagttt	ggagagatgg	gaggcaagtt	tatgaaaagc	caggggctaa	300
gccagctcta	ccataaccag	agtcagggac	tcttatocca	gctgcaagga	cagtcgaagg	360
atatgccacc	tcggttttct	aagaaaggac	agcttaatgc	agatgagatt	agcctgagga	420
ggcatcacc	ga					432



<210> 177  
 <211> 788  
 <212> DNA  
 <213> Homo sapien

<400> 177

tagcatgttg	agcccagaca	cagtagcatt	tgtgccaatt	tctggttgga	atggtgacaa	60
catgctggag	ccaagtgcata	acatgccttg	gttcaaggga	tggaaagtca	cccgtaagga	120
tggcaatgcc	agtggaaacca	cgtctgctga	ggctctggac	tgcatcctac	caccaactcg	180
cccaactgac	aagcccttgc	gcctgcctct	ccaggatgtc	tacaaaattg	gtggtattgg	240
tactgttcct	gttggccgag	tggagactgg	tgttctcaaa	cccgttatgg	tggtcacctt	300
tgctccagtc	aacgttacaa	cgggaagtaaa	atctgtcgaa	atgcaccatg	aagctttgag	360
tgaagctctt	cctggggaca	atgtgggctt	caatgtcaag	aatgtgtctg	tcaaggatgt	420
tcgtcgtggc	aacgttgctg	gtgacagcaa	aaatgaccca	ccaatggaag	cagctggctt	480
cactgctcag	gtgattatcc	tgaaccatcc	aggccaaata	agtgccggct	atgcccctgt	540
attggattgc	cacacggctc	acattgcatg	caagtttgct	gagctgaagg	aaaagattga	600
tcgccgttct	ggtaaaaagc	tgggaagatgg	ccctaaattc	ttgaagtctg	gtgatgctgc	660
cattgttgat	atggttcctg	gcaagcccat	gtgtgttgag	agcttctcag	actatccacc	720
tttgggtcgc	tttgctgttc	gtgatatgag	acagacagtt	gcggtgggtg	tctgggctca	780
acatgcta						788

<210> 178  
 <211> 786  
 <212> DNA  
 <213> Homo sapien

<400> 178

tagcatgttg	agcccagaca	cctgtgtttc	tgggagctct	ggcagtggcg	gattcatagg	60
cacttgggct	gcactttgaa	tgacacaact	ggctttatta	gattcactag	tttttaaaaa	120
attgttgttc	gtttcttttc	attaaagggt	taatcagaca	gatcagacag	cataattttg	180
tattttaatga	cagaaacggt	ggtacatttc	ttcatgaatg	agcttgcatg	ctgaagcaag	240
agcctacaaa	aggcacttgt	tataaatgaa	agttctggct	ctagaggcca	gtactctgga	300
gtttcagagc	agccagtgat	tgttccagtc	agtgatgcct	agttatatag	aggaggagta	360
cactgtgcac	tcttctaggt	gtaaggggat	gcaactttgg	atcttaaaat	tctgtacaca	420
tacacacttt	atatatatgt	atgtatgtat	gaaaacatga	aattagtttg	tcaaatatgt	480
gtgtgttttag	tatttttagct	tagtgcaact	atttccacat	tatttattaa	attgatctaa	540
gacactttct	tgttgacacc	ttgaatatta	atgttcaagg	gtgcaatgtg	tattccttta	600
gattgtttaa	gcttaattac	tatgatttgt	agtaaatata	cttttaaaat	gtatttgagc	660
ccttctgtag	tgtcgtaggg	ctcttacagg	gtgggaaaga	ttttaatttt	ccagttgcta	720
attgaacagt	atggcctcat	tatatatttt	gatttatagg	agtttgtgtc	tgggctcaac	780
atgcta						786

<210> 179  
 <211> 796  
 <212> DNA  
 <213> Homo sapien

<400> 179

tagcatgttg	agcccagaca	ctgggttaca	gaccagacct	gcttcctcca	tatgtaaaca	60
gcttttaaaa	agccagtga	cctttttaat	actttggcaa	ccttctttca	caggcaaaga	120
acacccccat	ccgccccttg	tttgagagtgc	agagtttggc	tttggttctt	tgccttgctt	180
ggagtatact	tctaattcct	gttgtcctgc	acaagctgaa	taccgagcta	cccaccgcca	240
cccaggccag	gtttccactc	atttattact	ttatgtttct	gttccattgc	tgggtccacag	300

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aaataagttt tcctttggag gaatgtgatt atacccttt aatttcctcc ttttgctttt 360
ttttaatatc attggtatgt gtttggccca gaggaactg aaattcacca tcatcttgac 420
tggaatccc attaccatgc tttttttaa aaacgtaatt tttcttgcc tacattggca 480
gagtagccct tcctggctac tggttaatg tagtcactca gtttctaggt ggcattagga 540
atgagacctg aagcacagac tgtcttaacca caaaagggtg caagatctca aaccttagcc 600
aaagggctat gtcaggtttc aatgctatct gcttctgttc ctgctcactg ttctggattt 660
tgtccttctt catccctagc accagaattt cccagtcctc ctccctacct tcccttggtt 720
taattctaatt ctatcagcaa aataactttt caaatgtttt aaccggtatc tccatgtgtc 780
tgggctcaac atgcta 796

```

```

<210> 180
<211> 488
<212> DNA
<213> Homo sapien

```

```

<400> 180
ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt 60
aaaacgacgg ccagtgaatt gtaatacgac tcaactatagg gcgaattggg cccgacgtcg 120
catgctcccg gccgccatgg ccgcgggata gcatgttgag cccagacacc tgcaggatcat 180
ttggagagat ttttcaagt accagcttga tggctttttt caggaggaga gacactgagc 240
actcccaagg tgaggttgaa gatttcctct agatagccgg ataagaagac taggagggat 300
gcctagaaaa tgattagcat gcaaatttct acctgccatt tcagaactgt gtgtcagccc 360
acattcagct gcttcttggt aactgaaaag agagagggtat tgagactttt ctgatggccg 420
ctctaacatt gtaacacagt aatctgtgtg tgtgtgggtg tgtgtgtgtg tctgggctca 480
acatgcta 488

```

```

<210> 181
<211> 317
<212> DNA
<213> Homo sapien

```

```

<400> 181
tagcatgttg agcccagaca cggcgacggg acctgatgag tgggggtgatg gcacctgtga 60
aaaggaggaa cgtcatcccc catgatattg gggaccaga tgatgaacca tggctccgcg 120
tcaatgcata ttaataccat gatactgctg attggaagga cctgaacctg aagtttgtgc 180
tgcaggttta tcgggactat tacctcacgg gtgatcaaaa cttcctgaag gacatgtggc 240
ctgtgtgtct agtaagggat gcacatgcag tggccagtgt gccaggggta tggttggtgt 300
ctgggctcaa catgcta 317

```

```

<210> 182
<211> 507
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(507)
<223> n = A,T,C or G

```

```

<400> 182
tagcatgttg agcccagaca ctggctgtta gccaaatcct ctctcagctg ctccctgtgg 60
tttggtgact caggattaca gaggcaccc gtttcaggga acaaaaagat tttagctgcc 120
agcagagagc accacatata ttagaatggg aaggactgcc acctccttca agaacaggag 180
tgaggggtgg ggtgaatggg aatggaagcc tgcattccct gatgcatttg tgctctctca 240

```

aatcctgtct	tagtcttagg	aaaggaagta	aagtttcaag	gacggttccg	aactgctttt	300
tgtgtctggg	ctcaacatgc	tatcccgcg	ccatggcggc	cgggagcatg	cgacgtcggg	360
cccaattcgc	cctatagtga	gtcgtattac	aattcactgg	ccgtcgtttt	acaacgtcgt	420
gactgggaaa	accctggcgt	tacccaactt	aatcgccttg	cagcacatcc	ccctttccca	480
gctggcgtaa	tancgaaaag	gccccga				507

&lt;210&gt; 183

&lt;211&gt; 227

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 183

gatttacgct	gcaacactgt	ggaggtagcc	ctggagcaag	gcaggcatgg	atgcttctgc	60
aatcccaaaa	tggagcctgg	tatttcagcc	aggaatctga	gcagagcccc	ctctaattgt	120
agcaatgata	agttattctc	tttgttcttc	aaccttccaa	tagccttgag	cttccagggg	180
agtgtcgtaa	atcattacag	cctggtctcc	acagtgttgc	agcgtaa		227

&lt;210&gt; 184

&lt;211&gt; 225

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 184

ttacgctgca	acactgtgga	gcagattaac	atcagacttt	tctatcaaca	tgactgggggt	60
tactaaaaag	acaacaaatc	aatggcttca	aaagtctaag	gaataatttc	gatacttcaa	120
ctttataaaa	cctgacaaaa	ctatcaatca	agcataaaga	cagatgaaga	acatttccag	180
attttggcca	atcagatatt	ttacctccac	agtgttgcag	cgtaa		225

&lt;210&gt; 185

&lt;211&gt; 597

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 185

ggccccgacgt	cgcagtgtcc	cggccgccat	ggccgcggga	ttcgttaggg	tctctatcca	60
ctgggaccca	taggctagtc	agagtattta	gagttgagtt	cctttctgct	tcccagaatt	120
tgaagaaaa	ggagttaggt	gatagagctg	agagatcaga	tttgccctctg	aagcctgttc	180
aagatgtatg	tgctcagacc	ccaccactgg	ggcctgtggg	tgaggctcctg	ggcatctatt	240
tgaatgaatt	gctgaagggg	agcactatgc	caaggaaggg	gaacccatcc	tggcactggc	300
acaggggtca	ccttatccag	tgctcagtgc	ttctttgctg	ctacctgggt	ttctctcata	360
tgtgaggggc	aggtaagaag	aagtgcccr	tgttgtgcga	gttttagaac	atctaccagt	420
aagtggggaa	gtttcacaaa	gcagcagctt	tgttttgtgt	attttcacct	tcagttagaa	480
gaggaaggct	gtgagatgaa	tgttagttag	gtggaaaaga	cgggtaagct	tagtggatag	540
agaccctaac	gaatcactag	tgcggccgcc	ttgcaggctc	accatatggg	agagctc	597

&lt;210&gt; 186

&lt;211&gt; 597

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 186

ggccccgaagt	tgcatgttcc	cggccgccat	ggccgcggga	ttcgttaggg	tctctatcca	60
ctacctaaaa	aatcccaaac	atataactga	actcctcaca	cccaattgga	ccaatccatc	120
accccagagg	cctacagatc	ctcctttgat	acataagaaa	atttcccaaa	actacctaac	180

tatatcattt	tgcaagattt	gttttaccaa	atthttgatgg	cctttctgag	cttgctcagtg	240
tgaaccacta	ttacgaacga	tccgatatta	actgcccctc	accgtccagg	tgtagctggc	300
aacatcaagt	gcagtaaata	ttcattaagt	tttcacctac	taaggtgctt	aaacacccta	360
gggtgccatg	tcggtagcag	atcttttgat	ttgtttttat	ttcccataag	ggtcctgttc	420
aaggtcaatc	atacatgtag	tgtgagcagc	tagtcactat	cgcatgactt	ggaggggtgat	480
aatagaggcc	tcctttgctg	ttaaagaact	cttgtcccag	cctgtcaaag	tggatagaga	540
ccctaacgaa	tcactagtgc	ggccgcctgc	aggtcgacca	tatgggagag	ctcccaa	597

<210> 187  
 <211> 324  
 <212> DNA  
 <213> Homo sapien

tcgttagggg	ctctatccac	ttgcaggtaa	aatccaatcc	tgtgtatatc	ttatagtctt	60
ccatatgtag	tggttcaaga	gactgcagtt	ccagaaagac	tagccgagcc	catccatgtc	120
ttccacttaa	ccctgctttg	ggttacacat	cttaactttt	ctgttcaagt	ttctctgtgt	180
agtttatagc	atgagtattg	ggawaatgcc	ctgaaacctg	acatgagatc	tgggaaacac	240
aaacttactc	aataagaatt	tctcccatat	ttttatgatg	gaaaaatttc	acatgcacag	300
aggagtggat	agagacccta	acga				324

<210> 188  
 <211> 178  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(178)  
 <223> n = A,T,C or G

gcgcggggat	tcgggggtgat	acctcctcat	gccaaaatac	aacgtntaat	ttcacaactt	60
gccttccaat	ttacgcattt	tcaatttgct	ctccccattt	gttgagtcac	aacaaacacc	120
attgcccgaga	aacatgtatt	acctaacatg	cacatactct	taaaactact	catccctt	178

<210> 189  
 <211> 367  
 <212> DNA  
 <213> Homo sapien

tgacaccttg	tccagcatct	gacacagtct	tggctcttgg	aaaatattgg	ataaatgaaa	60
atgaatttct	ttagcaagtg	gtataagctg	agaatatacg	tatcacatat	cctcattcta	120
agacacattc	agtgtccctg	aaattagaat	aggacttaca	ataagtgtgt	tcactttctc	180
aatagctgtt	attcaattga	tggtaggcct	taaaagtcaa	agaaatgaga	gggcatgtga	240
aaaaaagctc	aacatcactg	atcattagaa	aacttccatt	caaaccacca	atgagatacc	300
atctcatacc	agtcagaatg	gctattatta	aaaagtcaaa	aaataacaga	tgctggacaa	360
ggtgtca						367

<210> 190  
 <211> 369  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(369)  
 <223> n = A,T,C or G

<400> 190  
 gacaccttgt ccagcatctg acaacgctaa cagcctgagg agatctttat ttatttattt 60  
 agtttttact ctggctaggc agatggtggc taaaacattc atttaccat ttattcattt 120  
 aattgttctt gcaaggccta tggatagagt attgtccagc actgctctgg aagctaggag 180  
 catggggatg aacaagatag gctacatcct gttcccacag aacttccact ttagtctggg 240  
 aaacagatga tatatacaaa tatataaatg aattcaggta gttttaagta cgaaaagaat 300  
 aagaaagcag agtcatgatt tanaatgotg gaaacagggg ctattgcttg agatattgaa 360  
 ggtgccccaa 369

<210> 191  
 <211> 369  
 <212> DNA  
 <213> Homo sapien

<400> 191  
 tgacaccttg tccagcatct gcacagggaa aagaaactat tatcagagtg aacaggcaac 60  
 ctacagaatg ggagaaaatt tttgcaatct atccatctga caaagggcta atatccagaa 120  
 tctacaaaga acttatacaa atttacaaga aacaaacaaa caaacaactc ctcaaaaagt 180  
 ggggtgaagga tgtgaacaga cacttctcaa aagaagacat ttatggggcc aacaaacata 240  
 tgaaaaaaag ctcacatcat ctggtcacta gataaatgca aatcaaaaacc acaatgagat 300  
 accatctcat tccagtttag atggcaatca ttaaaaagtc aggaacaac agatgctgga 360  
 caaggtgtc 369

<210> 192  
 <211> 449  
 <212> DNA  
 <213> Homo sapien

<400> 192  
 tgacgcttgg ccacttgaca cttcatcttt gcacagaaaa acttctttac agatttaatt 60  
 caagactggt ctagtgcagc tcctccagac attttttcat ttgttcata tacgtggaat 120  
 tttaaaatca tgtttcatca gtttgaaatg atttgggctg ctaatcaaca caattggatc 180  
 gactgttcta ctaaacaaca ggaaaatgtg tatctggcag cctgtggaga aacactaaac 240  
 attgattttt ctttgccctt tacggacttt gttccagcta catgtaatac caagttctct 300  
 ttaagaggag aagatgttga tcttcatttg tttctaccag actgccaccc tagtaaatat 360  
 tctttattta tgctggtaaa aaattgccat ccaaataaga tgattcatga tactggtatt 420  
 cctgctgagt gtcaagtggc caagcgtca 449

<210> 193  
 <211> 372  
 <212> DNA  
 <213> Homo sapien

<400> 193  
 tgacgcttgg ccacttgaca ccagggatgt akcagttgaa tataatcctg caattgtaca 60  
 tattggcaat ttcccatcaa acattctaga aagagacaac caggattgct aggccataaa 120  
 agctgcaata aataactggg aattgcagta atcatttcag gccaatcaaa tccagtttgg 180  
 ctcagagggt cctttggctg agagaagagg tgagatataa tgtgttttct tgcaacttct 240

```

tggaagaata actccacaat agtctgagga ctagatacaa acctatttgc cattaagca 300
ccagagtctg ttaattccag tactgataag tggtggagat tagactccag tgtgtcaagt 360
ggccaagcgt ca 372

```

```

<210> 194
<211> 309
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(309)
<223> n = A,T,C or G

```

```

<400> 194
tgacgcttgg ccacttgaca cttatgtaga atccatcgtg ggctgatgca agccctttat 60
ttaggcttag tggtgtgggc accttcaata tcacactaga gacaaacgcc acaagatctg 120
cagaaacatt cagttctgan cactcgaatg gcaggataac tttttgtgtt gtaatccttc 180
acatatataa aaacaaactc tgcantctca cgttacaaaa aaacgtactg ctgtaaaata 240
ttaagaaggg gtaaaggata ccactctataa caaagtaact tacaactagt gtcaagtggc 300
caagcgtca 309

```

```

<210> 195
<211> 312
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(312)
<223> n = A,T,C or G

```

```

<400> 195
tgacgcttgg ccacttgaca cccaatctcg cacttcatcc tcccagcacc tgatgaagta 60
ggactgcaac tatccccact tcccagatga ggggaccaan gtacacatta ggaccgggat 120
gggagcacag atttgtccga tcccagactc caagcactca gcgtcactcc aggacagcgg 180
ctttcagata aggtcacaaa catgaatggc tccgacaacc ggagtcagtc cgtgctgagt 240
taaggcaatg gtgacacgga tgcacgtgtn acctgtaatg gttcatcgta agtgtcaagt 300
ggccaagcgt ca 312

```

```

<210> 196
<211> 288
<212> DNA
<213> Homo sapien

```

```

<400> 196
tgtatcgacg tagtgggtctc ctcagccatg cagaactgtg actcaattaa acctctttcc 60
tttatgaatt acccaatctc gggtagtgtc tttatagtag tgtgagaatg gactaatata 120
agtacatttt acttagtaat aataataaac aaatatatta catttttgtg tatttactac 180
accatatttt ttattgttat tgtagtgtac accttctact tattaaaaga aataggcccg 240
aggcgggacg atcacgaggt caggagatgg agaccactac gtcgatac 288

```

```

<210> 197
<211> 289

```

<212> DNA

<213> Homo sapien

<400> 197

ttggggcacct	tcaatatcat	gacaggtgat	gtgataacca	agaaggctac	taagtgatta	60
atgggtgggt	aatgtataca	gagtaggtac	actggacaga	gggtaattc	atagccaagg	120
caggagaagc	agaatggcaa	aacatttcat	cacactactc	aggatagcat	gcagtttaaa	180
acctataagt	agttttatitt	tggaattttc	cacttaatat	tttcagactg	caggtaacta	240
aactgtggaa	cacaagaaca	tagataaggg	gagaccacta	cgtcgatac		289

<210> 198

<211> 288

<212> DNA

<213> Homo sapien

<400> 198

gtatcgacgt	agtggctctcc	caagcagtg	gaagaaaacg	tgaaccaatt	aaaatgtatc	60
agatacccca	aagaaaggcg	cttgagtaaa	gattccaagt	gggtcacaat	ctcagatctt	120
aaaattcagg	ctgtcaaaga	gatttgctat	gaggttgctc	tcaatgactt	caggcacagt	180
cggcaggaga	ttgaagccct	ggccattgtc	aagatgaagg	agctttgtgc	catgtatggc	240
aagaaagacc	ccaatgagcg	ggactcctgg	agaccactac	gtcgcatac		288

<210> 199

<211> 1027

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(1027)

<223> n = A,T,C or G

<400> 199

gcttttttggg	aaaaaacncaa	ntggggggaaa	gggggnttnn	tngcaagggg	ataaaggggg	60
aancccagg	tttccccatt	cagggaggtg	taaaaagncg	gccaggggat	tgtaanagga	120
ttcaataata	gggggaatgg	gcccngaagt	tgcaaggttc	cngcccgcga	tgncgcggg	180
atttagtgac	attacgacgs	tggtataaaa	gtgggsccaa	waaatatttg	tgatgtgatt	240
tttsgaccag	tgaaccatt	gwacaggacc	tcatttccty	tgagatgrta	gccataatca	300
gataaaagrt	tagaagtytt	tctgcacgtt	aacagcatca	ttaaattggag	tggtcatcacc	360
aatttcaccc	tttgttagcc	gataccttcc	cottgaaggc	attcaattaa	gtgaccaatc	420
gtcatacgag	aggggatggc	atggggattg	atgatgat	caggggtgat	accttcacag	480
gtgaaaggca	tatcctcttg	tctatactga	ataccacaag	tacccttttg	accatgtcga	540
ctagcaaatt	tgtctccaat	ctgtgtwac	cctaacagag	cgtaccctta	ttttacaaaa	600
tttatatcct	tcctgattga	gagttaccat	aacctgatcc	acaatgcccg	tctcgctwgt	660
tctgagaaaa	gtgctacagt	ctctcttggt	atagcgtcta	ttggtgctct	ccaattcatc	720
ttcatttttc	aggcaaggtg	aactgttttg	cctataataa	cmtcatctcc	tgatacmcga	780
aaccccckgga	rctatcaaac	catcatcatc	cagcgttckt	watgtymcta	aatccctatt	840
gcgccgcct	gcaggtcaac	atatnggaaa	acccccacc	ccttnggagc	ntaccttgaa	900
ttttccatat	gtcccntaaa	ttancctngnc	ttancctggc	cntaacctnt	tccggtttta	960
attgtttccg	cccccnttcc	ccnccttnna	accggaaacc	ttaatttttna	accnggggtt	1020
cctatcc						1027

<210> 200

<211> 207

<212> DNA

<213> Homo sapien

<400> 200

agtgacatta	cgacgctggc	catcttgaat	cctagggcat	gaagttgcc	caaagttcag	60
cacttggtta	agcctgatcc	ctctggttta	tcacaaagaa	taggatggga	taaagaaagt	120
ggacacttaa	ataagctata	aattatatgg	tccttgtcta	gcaggagaca	actgcacagg	180
tatactacca	gcgtcgtaat	gtcacta				207

<210> 201

<211> 209

<212> DNA

<213> Homo sapien

<400> 201

tgggcacctt	caatatctat	taaaagcaca	aatactgaag	aacacaccaa	gactatcaat	60
gaggttacat	ctggagtcct	cgatatatca	ggaaaaaatg	aagtgaacat	tcacagagtt	120
ttacttcttt	gggaactcaa	atgctagaaa	agaaaagggg	gccctctttc	tctggcttcc	180
tggtcctatc	cagcgtcgta	atgtcacta				209

<210> 202

<211> 349

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(349)

<223> n = A,T,C or G

<400> 202

ntacgctgca	acactgtgga	gccactgggt	tttattcccg	gcaggttatc	cagcaaacag	60
tactgaaca	caccgaagac	cgtggtatgg	taaccgttca	cagtaatcgt	tccagtcgtc	120
tgcgggaccc	cgacgagcgt	cactgggtac	agaccagatt	cagccggaag	agaaagcgcc	180
gcagggagag	actcgaactc	cactccgctg	gtgagcagcc	ccatgttttc	aactcgaagt	240
tcaaacggca	ttgggttata	taccatcagc	tgaacttcac	acacatctcc	ttgaaccac	300
tggaatcta	ttttcttggt	ccgctcttct	ccacagtgtt	gcagcgtaa		349

<210> 203

<211> 241

<212> DNA

<213> Homo sapien

<400> 203

tgtctctctt	gccttaccaa	cccaaagccc	actgtgaaat	atgaagtga	tgacaaaatt	60
cagttttcaa	cgcaatatag	tatagtttat	ctgattcttt	tgatctccag	gacactttta	120
acaactgcta	ccaccaccac	caacctaggg	atttaggatt	ctccacagac	cagaaattat	180
ttctcttttg	agtttcaggc	tcctctggga	ctcctgttca	tcaatgggtg	gtaaatggct	240
a						241

<210> 204

<211> 248

<212> DNA

<213> Homo sapien



&lt;400&gt; 204

tagccatttta	ccacccatct	gcaaaccswg	acmwwcargr	cywgwackya	ggcgatttga	60
agtactggta	atgctctgat	catgttagtt	acataagtgt	ggtcagttta	caaaaattca	120
cagaactaaa	tactcaatgc	tatgtgttca	tgtctgtgtt	tatgtgtgtg	taatgtttca	180
attaagtittt	tttaaaaaaa	agagatgatt	tccaaataag	aaagccgtgt	tggttaaggca	240
agaggagc						248

&lt;210&gt; 205

&lt;211&gt; 505

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(505)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 205

tacgctgcaa	cactgtggag	ccattcatac	aggcccttaa	ttaaggaaca	agtgattatg	60
ctacctttgc	acggttaggg	taccgcggcc	gttaaacaatg	tgctactggg	caggcggtgc	120
ctctaatact	ggtgatgcta	gaggtgatgt	ttttggtaaa	caggcggggt	aagatttgcc	180
gagttccttt	tacttttttt	aacctttcct	tatgagcatg	cctgtgttgg	gttgacagtg	240
ggggtataaa	tgacttggtg	gttgattgta	gatattgggc	tgtaattgt	cagttcagtg	300
ttttaatctg	acgcaggctt	atgcggagga	gaatgttttc	atgttactta	tactaacatt	360
agttcttcta	tagggtgata	gattgggtcca	attgggtgtg	aggagttcag	ttatatgttt	420
gggatttttt	aggtagtggg	tggtganctt	gaacgccttc	ttaattgggtg	gctgctttta	480
rgcctactat	gggtggtaaa	tggt				505

&lt;210&gt; 206

&lt;211&gt; 179

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 206

tagactgact	catgtccctt	accaaagccc	atgtaaggag	ctgagttcct	aaagactgaa	60
gacagactat	tctctggaga	aaaataaaat	ggaaattgta	ctttaaaaaa	aaaaaaaatc	120
ggcggggcat	ggtagcacac	acctgtaatc	ccagctacta	ggggacatga	gtcagtcta	179

&lt;210&gt; 207

&lt;211&gt; 176

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 207

agactgactc	atgtccccta	ccccaccttc	tgtgtgtgtg	ccgtgttcct	aacaggtcac	60
agactggtac	tggtcagtgg	cctgggggtt	ggggacctct	attatatggg	atacaaattt	120
aggagttgga	attgacacga	tttagtgact	gatgggatat	gggtggtaaa	tggtcta	176

&lt;210&gt; 208

&lt;211&gt; 196

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

```

<400> 208
agactgactc atgtccccta ttttaacaggg tctctagtgc tgtgaaaaaa aaaaatgctg      60
aacattgcat ataacttata ttgtaagaaa tactgtacaa tgactttatt gcatctgggt      120
agctgtaagg catgaaggat gccagaaggt ttaaggaata tgggtggtaa atggctaggg      180
gacatgagtc agtcta                                     196

```

```

<210> 209
<211> 345
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(345)
<223> n = A,T,C or G

```

```

<400> 209
gacgcttggc cacttgacac cttttatattt ttaaggattc ttaagtcatt tangtnactt      60
tgtaagtttt tctctgccc ccataagaat gatagcttta aaaattatgc tggggtagca      120
aagaagatac ttctagcttt agaatgtgta ggtatagcca ggattcttgt gagggaggggt      180
gatttagagc aaatttctta ttctccttgc ctcatctgta acatggggat aataatagaa      240
ctggcttgac aaggttggaa ttagtattac atggtaaata catgtaaaat gtttagaatg      300
gtgccaaagta tctaggaagt acttgggcat ggggtggtaaa tggct                                     345

```

```

<210> 210
<211> 178
<212> DNA
<213> Homo sapien

```

```

<400> 210
gacgcttggc cacttgacac tagagtaggg tttggccaac tttttctata aaggaccaga      60
gagtaaatat ttcaggcttt gtgggttggt cagtctctct tgcaactact cagctctgcc      120
attgtagcat agaaatcagc catagacagg acagaaatga atgggtggta aatggcta      178

```

```

<210> 211
<211> 454
<212> DNA
<213> Homo sapien

```

```

<400> 211
tgggcacctt caatatctat ccagcgcac taaattcgct tttttcttga ttaaaaaattt      60
caccacttgc tgtttttgct catgtatacc aagtagcagt ggtgtgaggc catgcttggt      120
ttttgattcg atatcagcac cgtataagag cagtgccttg gccattaatt tatcttcatt      180
gtagacagca tagtgtagag tggatatctc atactcatct ggaatatttg gatcagtgcc      240
atgttccagc aacattaacg cacattcatc ttcttggcat tgtacggcct ttgtcagagc      300
tgtctctttt ttgttgtcaa ggacattaag ttgacatcgt ctgtccagca cgagttttac      360
tacttctgaa ttccatttgg cagaggccag atgtagagca gtcctctttt gcttgtccct      420
cttgttcaca tcagtgtccc tgagcataac ggaa                                     454

```

```

<210> 212
<211> 337
<212> DNA
<213> Homo sapien

```

tccgttatgc	caccagaaa	acctactgga	gttacttatt	aacatcaagg	ctggaaccta	60
tttgccctcg	tccatctga	ttcatgagca	catgggttatt	actgatcgca	ttgaaaacat	120
tgatccactg	ggttttcttta	tttatcgact	gtgtcatgac	aaggaaaactt	acaaaactgca	180
acgcagagaa	actattaaag	gtattcagaa	acgtgaagcc	agcaattggt	tcgcaattcg	240
gcattttgaa	aacaaatttg	ccgtggaaac	tttaatttgt	tcttgaacag	tcaagaaaaa	300
cattattgag	gaaaattaat	atcacagcat	aacggaa			337

<213> Homo sapien

<223> n = A, T, C or G

tccgggtgatg	cctcctcag	catcttccat	ccatctcttc	aagattagct	gtcccaaatg	60
tttttccttc	tcttctttac	tgataaattt	ggactccttc	ttgacactga	tgacagcttt	120
agtatccttc	ttgtcacctt	gcagacttta	aacataaaaa	tactcattgg	ttttaaaagg	180
aaaaaagtat	acattagcac	tattaagctt	ggccttgaaa	cattttctat	cttttattaa	240
atgtcggtta	gctgaacaga	attcatttta	caatgcagag	tgagaaaaga	agggagctat	300
atgcatttga	gaatgcaagc	attgtcaa	aaacatttta	aatgctttct	taaagtgagc	360
acatacagaa	atacatthaag	atattagaaa	gtgtttttgc	ttgtgtacta	ctaattaggg	420
aagcaccttg	tatagttcct	cttctaaaa	tgaagtagat	tttaaaaacc	catgtaattt	480
aattgagctc	tcagtttcaga	ttttaggaga	attttaacag	ggattttggt	ttgtctaaat	540
tttgtcaatt	tnntttagtta	atctgtataa	ttttataaat	gtcaaacctg	atttagtcg	600
ttttcatgct	gctatgaaag	aaatacccan	gacagggtta	tttataaang	gaaagangtt	660
aatttgactc	ccagtttcaca	ggcctgagga	ngnatcnccc	gaaatcctta	ttgcg	715

<213> Homo sapien

$\langle 223 \rangle$  n = A, T, C or G

ggtaangngc	atacntcggt	gctccgggcg	cgggagtcgg	gggattcggg	tgatgcctcc	60
tcaggcccac	ttgggcctgc	ttttcccaa	tggcagctcc	tctggacatg	ccattccttc	120
tcccacctgc	ctgattcttc	atatgttggg	tgtccctggt	tttctggtgc	tatttcctga	180
ctgctgttca	gctgccactg	tcttgcaaag	cctgcctttt	taaatgcctc	accattcctt	240
catttgtttc	ttaaatatgg	gaagtgaag	tgccacctga	ggcggggcac	agtggctcac	300
gcctgtaatc	ccaggacttt	gggagcttga	ggaggcatca	cccgga		345

<213> Homo sapien

```

<400> 215
ggtgatgcct cctcaggcga agctcagggg ggacagaaac ctcccgtgga gcagaagggc 60
aaaagctcgc ttgatcttga ttttcagtac gaatacagac cgtgaaagcg gggcctcacg 120
atccttctga ccttttgggt ttttaagcagg aggtgtcaga aaagttacca cagggataac 180
tggcttgtgg cggccaagcg ttcatagcga cgtcgctttt tgatccttcg atgtcggtc 240
ttcctatcat tgtgaagcag aattcaccaa gcgttggatt gttcaccac taataggga 300
cgtgagctgg gtttagaccg tcgtgagaca ggtagtttt accctactga tgatgtgtkg 360
ttgccatgg aatcctgctc agtacgagag gaaccgcagg ttcasacatt tgggtgatgt 420
gcttgccctt

```

<210> 216

<211> 593

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(593)

<223> n = A,T,C or G

```

<400> 216
tgacacctat gtcnngcatc tgttcacagt ttccacaaat agccagcctt tggccacctc 60
tctgtcctga ggtatacaag tatatcagga ggtgtatacc ttctcttctc ttccccacca 120
aagagaacat gcaggctctg gaagctgtct taggagcctt tgggctcaga atttcagagt 180
cttgggtacc ttggatgtgg tctggaagga gaaacattgg ctctggataa ggagtacagc 240
cggaggaggg tcacagagcc ctcagctcaa gcccctgtgc cttagtctaa aagcagcttt 300
ggatgaggaa gcagggttaag taacatacgt aagcgtacac aggtagaaaag tgctgggagt 360
cagaattgca cagtgtgtag gagtagtacc tcaatcaatg agggcaaadc aactgaaaga 420
agaagaccna ttaatgaatt gcttangggg aaggatcaag gctatcatgg agatctttct 480
aggaagatta ttgtttanaa ttatgaaagg antagggcag ggacagggcc agaagtanaa 540
ganaacattg cctatanccc ttgtcttgca cccagatgct ggacaagggtg tca 593

```

<210> 217

<211> 335

<212> DNA

<213> Homo sapien

```

<400> 217
tgacaccttg tccagcatct gacgtgaaga tgagcagctc agaggaggtg tcttggattt 60
cctgggttctg tgggtccgt ggcaatgaat tcttctgtga agtgatgaa gactacatcc 120
aggacaaatt taatcttact ggactcaatg agcaggtccc tcactatcga caagctctag 180
acatgatctt ggacctggag cctgatgaag aactggaaga caacccaac cagagtgacc 240
tgattgagca ggcagccgag atgctttatg gattgatcca cgcccgtac atccttacca 300
accgtggcat cgcccagatg ctggacaagg tgtca 335

```

<210> 218

<211> 248

<212> DNA

<213> Homo sapien

```

<400> 218
tacgtactgg tcttgaaggt cttaggtaga gaaaaaatgt gaatatttaa tcaaagacta 60
tgtatgaaat gggactgtaa gtacagaggg aagggtggcc cttatcgcca gaagttggtg 120

```

```

gatgcgtccc cgtcatgaaa tgttgtgtca ctgcccgaca tttgccgaat tactgaaatt 180
ccgtagaatt agtgcaaatt ctaacgttgt tcatctaaga ttatgggtcc atgtttctag 240
tacttttta 248

```

```

<210> 219
<211> 530
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(530)
<223> n = A,T,C or G

```

```

<400> 219
tgacgcttgg ccacttgaca caagtagggg ataaggacaa agacccatna ggtggcctgt 60
cagccttttg ttactgttgc ttccctgtca ccacggcccc ctctgtaggg gtgtgctgtg 120
ctctgtggac attggtgcat ttccacacat accattctct ttctgcttca cagcagtcct 180
gaggcgggag cacacaggac taccttgtca gatgangata atgatgtctg gccaaactcac 240
cccccaacct tctcactagt tatangaaga gccangccta naaccttcta tcctgncccc 300
ttgccctatg acctcatccc tgttccatgc cctattctga tttctgggtga actttggagc 360
agcctggttt ntccctcctca ctccagcctc tctccatacc atggtanggg ggtgctgttc 420
cacncaaang gtcaggtgtg tctggggaat cctnananct gccnggagtt tccnangcat 480
tcttaaaaac cttcttgccct aatcanatng tgtccagtgg ccaacctcn 530

```

```

<210> 220
<211> 531
<212> DNA
<213> Homo sapien

```

```

<400> 220
tgacgcttgg ccacttgaca ctaaatagca ttttctaaag gcctgattca gagttgtgga 60
aaattctccc agtgtcaggg attgtcagga acagggtgc tcctgtgctc actttacctg 120
ctgtgtttct gctggaaaag gagggaagag gaatggctga tttttacctc atgtctccca 180
gtttttcata ttcttcttgg atcctcttct ctgacaactg ttcccttttg gtcttcttct 240
tcttgctcag agagcaggtc tctttaaaac tgagaaggga gaatgagcaa atgattaaag 300
aaaacacact tctgaggccc agagatcaaa tattaggtaa atactaaacc gcttgctgc 360
tgtgtgctact tttctcctct ttcacatgct ctatccctct atccccacc tattcatatg 420
gcttttatct gccaaagttat ccggcctctc atcaaccttc tcccctagcc tactggggga 480
tatccatctg ggtctgtctc tgggtgtattg gtgtcaagtg gccaaagctc a 531

```

```

<210> 221
<211> 530
<212> DNA
<213> Homo sapien

```

```

<400> 221
attgacgctt ggccacttga caccgcctg cctgcaatac tggggcaagg gccttcaactg 60
ctttcctgcc accagctgcc actgcacaca gagatcagaa atgctacca ccaagactgt 120
tggtcctcag cctctctgag gagaaagagc agaagcctgg aagtcagaag agaagctaga 180
tcggctacgg ccttggcagc cagcttcccc acctgtggca ataaagtcgt gcatggctta 240
acaatggggg cacctcctga gaaacacatt gttaggcaat tcggcgtgtg ttcacagag 300
catatttaca caaacctcga tagtgacgcc tactatccac tattgctcct acgctgcaaa 360
cctgaacagc atgggactgt actgaatact ggaagcagct ggtgatggta cttatttgtg 420

```

```
tatctaaaca cagagaaggt acagtaagaa tatgggtatca taaacttaca gggaccgcca 480
tcctatatgc agtctgttgt gaccaaaatg tgtcaagtgg ccaagcgtca 530
```

```
<210> 222
<211> 578
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(578)
<223> n = A,T,C or G
```

```
<400> 222
tgtatcgacg tagtgggtctc cgggctacta ggccgttgtg tgctggtagt acctggttca 60
ctgaaaggcg catctccctc cccgcgtcgc cctgaagcag ggggaggact tcgcccagcc 120
aaggcagttg tatgagtttt agctgcggca cttcgagacc tctgagccca cctccttcag 180
gagccttccc cgattaagga agccagggtg aggattcctt cctccccag acaccacgaa 240
caaaccacca cccccctat tctggcagcc catatacatc agaacgaaac aaaaataaca 300
aataaacnaa aaccaaaaaa aaaagagaag gggaaatgta tatgtctgtc catcctgttg 360
ctttagcctg tcagctccta nagggcaggg accgtgtcct ccgaatggtc tgtgcagcgc 420
cgactgcggg aagtatcgga ggaggaagca gagtcagcag aagttgaacg gtgggcccgg 480
cggctcttgg gggctgggtg tgtacttcga gaccgcttcc gctttttgtc ttagatttac 540
gtttgctctt tggagtggga naccactacn tcnataca 578
```

```
<210> 223
<211> 578
<212> DNA
<213> Homo sapien
```

```
<400> 223
tgtatcgacg tagtgggtctc ctcttgcaaa ggactggctg gtgaatgggt tccctgaatt 60
atggacttac cctaaacata tcttatcatc attaccagtt gcaaaatatt agaattgtgt 120
gtcactgttt catttgattc ctagaagggt agtccttagat atgttacttt aacctgtatg 180
ctgtagtgct ttgaatgcat tttttgtttg catttttgtt tgcccaacct gtcaattata 240
gctgcttagg tctggactgt cctggataaa gctgttaaaa tattcaccag tccagccatc 300
ttacaagcta attaatgcaa ctaaagtctt ccttggtttg ccagacttgt tatgtcaatc 360
ctcaatttct gggttcattt tgggtgccct aaatcttagg gtgtgacttt cttagcatcc 420
tgtaacatcc attcccaagc aagcacaact tcacataata ctttccagaa gttcattgct 480
gaagccttcc cttcaccagc cggagcaact tgattttcta caacttcctt catcagagcc 540
acaagagtat gggatatgga gaccactacg tcgataca 578
```

```
<210> 224
<211> 345
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(345)
<223> n = A,T,C or G
```

```
<400> 224
tgtatcgacg tantgggtctc ccaaggtgct gggattgcag gcatgagcca ccaactcccag 60
```

```
<210> 225
<211> 347
<212> DNA
<213> Homo sapien
```

```
<210> 226
<211> 281
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(281)
<223> n = A,T,C or G
```

```
<210> 227
<211> 3646
<212> DNA
<213> Homo sapien
```

<400> 227						
gggaaacact	tctcccagc	cttgtaagg	ttggagccct	ctccagtata	tgtctgcagaa	60
tttttctctc	ggtttctcag	aggattatgg	agtccgcctt	aaaaaaggca	agctctggac	120
actctgcaaa	gtagaatggc	caaagtttgg	agttgagtgg	ccccttgaag	ggctactgaa	180
cctcacaatt	gttcaagctg	tgtggcgggt	tgttactgaa	actcccggcc	tccctgatca	240
gtttccctac	attgatcaat	ggctgagttt	ggtcaggagc	accccttccg	tggtccact	300
catgcaccat	tcataatttt	acctccaagg	tctctctgag	ccagaccgtg	ttttcgccctc	360
gaccctcagc	cggttcgggt	cgccctgtac	tgccctctctc	tgaagaagag	gagagtctcc	420
ctcaccaggt	cccacgcgct	taaaaccagc	ctactccctt	agggtcatcc	catgtctcct	480
cggctatgtc	cctctagggc	tcatcaccca	ttgcctcttg	gttgcaaccg	tggtgggagg	540
aagtagcccc	tctactacca	ctgagagagg	cacaagctcc	tctgggtgat	gagtgtctcca	600
cccccttctc	ggtttatgtc	ccttctttct	acttctgact	tgtataattg	gaaaacccat	660
aatcctccct	tctctgaaaa	qccccaggct	ttgacctcac	tgatggagtc	tgctactctgg	720

acacattggc	ccacctggga	tgactgtcaa	cagctccttt	tgaccctttt	cacctctgaa	780
gagagggaaa	gtatccaaaag	agaggccaaa	aagtacaacc	tcacatcaac	caataggccg	840
gaggaggaag	ctagaggaat	agtgattaga	gacccaattg	ggacctaatt	gggacccaaa	900
tttctcaagt	ggagggagaa	cttttgacga	tttccaccgg	tatctcctcg	tgggtattca	960
gggagctgct	cagaaaccta	taaacttgtc	taaggcgact	gaagtcgtcc	aggggcatga	1020
tgagtcacca	ggagtgtttt	tagagcacct	ccaggaggct	tatcagattt	acaccctttt	1080
tgacctggca	gccccgaaa	atagccatgc	tcttaatttg	gcatttggtg	ctcaggcagc	1140
cccagatagt	aaaaggaac	tccaaaaact	agagggattt	tgctggaatg	aataccagtc	1200
agcttttaga	gatagcctaa	aaggtttttg	acagtcaaga	ggttgaaaaa	caaaaacaag	1260
cagctcaggg	agctgaaaaa	agccactgat	aaagcatcct	ggagtatcag	agtttactgt	1320
tagatcagcc	tcatttgact	tcccctccca	catggtgttt	aaatccagct	acactacttc	1380
ctgaotcaaa	ctccactatt	cctgttcacg	actgtcagga	actgttgga	actactgaaa	1440
ctggccgacc	tgatcttcaa	aatgtgcccc	taggaaagggt	ggatgccacc	atgttcacag	1500
acagtagcag	cttcctcgag	aagggactac	gaaaggccgg	tcagctgtt	accatggaga	1560
cagatgtgtt	gtgggctcag	gctttaccag	caaacacctc	agcacaaaag	gctgaattga	1620
tcgcoctcac	tcaggctctc	cgatggggta	aggatattaa	cgtaaacact	gacagcaggt	1680
acgcctttgc	tactgtgcat	gtacgtggag	ccatctacca	ggagcgtggg	ctactcacct	1740
cagcaggtgg	ctgtaatcca	ctgtaaagga	catcaaaagg	aaaacacggc	tggtgcccgt	1800
ggtaaccaga	aagctgattc	agcagctcaa	gatgcagtgt	gactttcagt	cacgcctcta	1860
aaacttgctgc	ccacagtctc	ctttccacag	ccagatctgc	ctgacaatcc	cgcatactca	1920
acagaagaag	aaaactggcc	tcagaactca	gagccaataa	aaatcaggaa	ggttggtgga	1980
ttcttcctga	ctctagaatc	ttcatacccc	gaactcttgg	gaaaacttta	atcagtcacc	2040
tacagtctac	caccctatta	ggaggagcaa	agctacctca	gctcctccgg	agccgtttta	2100
agatccccc	tcttcaaagc	ctaacagatc	aagcagctct	ccggtgcaca	acctgcgccc	2160
aggtaaatgc	caaaaaaggt	cctaaaccca	gcccaggcca	ccgtctccaa	gaaaactcac	2220
caggagaaaa	gtgggaaatt	gactttacag	aagtaaaacc	acaccgggct	gggtacaaat	2280
accttctagt	actggtagac	accttctctg	gatggactga	agcatttgct	accaaaaacg	2340
aaactgtcaa	tatggtagtt	aagttttttac	tcaatgaaat	catccctcga	catgggctgc	2400
ctgtttgcca	tagggctctga	taatggaccg	gccttcgcct	tgtctatagt	ttagtcatgc	2460
agtaaggcgt	taaacattca	atggaagctc	cattgtgcct	atcgacccca	gagctctggg	2520
caagtagaac	gcatgaactg	caccctaaaa	aacactctta	caaaattaat	cttagaaacc	2580
ggtgtaaatt	gtgtaagtct	ccttccttta	gcctacttta	gagtaagggt	caccctctac	2640
tgggctgggt	tcttaccttt	tgaaatcatg	tatgggaggg	tgctgcctat	cttgccctaa	2700
ctaagagatg	cccaattggc	aaaaatatca	caaactaatt	tattacagta	cctacagtct	2760
ccccaacagg	tacaagatat	catcctgcca	cttgttogag	gaacccatcc	caatccaatt	2820
cctgaacaga	cagggccctg	ccattcattc	cgcgcagggt	acctgttggt	tgtaaaaaag	2880
ttccagagag	aaggactccc	tcctgcttgg	aagagacctc	acaccgtcat	cacgatgcca	2940
acggctctga	aggtggatgg	cattcctgcg	tggattcact	actcccgcct	caaaaaggcc	3000
aacagagccc	aactagaaac	atgggtcccc	agggctgggt	caggccccct	aaaactgcac	3060
ctaagttggg	tgaagccatt	agattaattc	tttttcttaa	ttttgtaaaa	caatgcatag	3120
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caatgatttg	attcccccaa	aaacacaagt	ggggaatgta	gtgtccaacc	tggtttttac	3240
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gataagatac	tgtggcaagc	tatatccgca	gttcccagga	attcgtccaa	ttgatcacag	3480
ccctcttacc	cttcagcaac	caccaccctg	atcagtcagc	agccatcagc	accgaggcaa	3540
ggccctccac	cagcaaaaag	attctgactc	actgaagact	tggatgatca	ttagtatttt	3600
tagcagtaaa	gttttttttt	ctttttcttt	ctttttttct	cgtgcc		3646

&lt;210&gt; 228

&lt;211&gt; 419

&lt;212&gt; DNA

&lt;213&gt; Homo sapien



<220>  
 <221> misc\_feature  
 <222> (1)...(419)  
 <223> n = A,T,C or G

<400> 228  
 taagagggtg caagatctaa gcacagccgt caatgcagaa cacagaacgt agcctggtaa 60  
 gtgtgttaag agtggaatt tttggagtac agagtaaggc acctaaccct agctggggtt 120  
 tggtagcggg cccagatggc ttacagaaga aagtgtcctg agatgagttt ttaagaatga 180  
 ataaggatag acacaagtga ggactgactt ggcagtgggt aatgggtggg ggcaaaaac 240  
 ttgcgatgta tggaaactgc acgtacagga atgaagaatg agactgtgtg gtgtttaatg 300  
 agctgcaaat actaatttta tcctgaaagt tttgaagagt taactaaaaa gtatttttta 360  
 gtaaggaaat aaccctacat ttcagggtta ttgtttgttt anatattgaa ggtgcccaa 419

<210> 229  
 <211> 148  
 <212> DNA  
 <213> Homo sapien

<400> 229  
 aagagggtac ctgtatgtag ccatgggtggc aatgagagac tgattactac ctgctggaga 60  
 ttgtttaagt gagttaatat attaaggata aagggagcca ggttttttga ctgttggaga 120  
 aggaaattac agatattgaa ggtcccaa 148

<210> 230  
 <211> 257  
 <212> DNA  
 <213> Homo sapien

<400> 230  
 taagagggtg cmaaaaaaaaa aaaatagaac gaatgagtaa gacctactat ttgatagtag 60  
 aacagggtga ctatagtcaa tgataactta attatacatt taacatagag tgtaattgga 120  
 ttgtttgtaa ctcgaaggat aaatgcttga gaggatggat accccattct ccatgatgta 180  
 cttatttcac attacatgcc tgtatcaaag catctcatat accctataaa tatgtacacc 240  
 tactatgtac cctctta 257

<210> 231  
 <211> 260  
 <212> DNA  
 <213> Homo sapien

<400> 231  
 taagagggtg cgggtatttg ctgatgggat ttttttttct ttctttttct ttggaaaaca 60  
 aaatgaaagc cagaacaaaa ttattgaaca aaagacaggg actaaatctg gagaaatgaa 120  
 gtcccctcac ctgactgcca tttcattcta tctgaccttc cagtctaggt taggagaata 180  
 gggggtggag gggattaatc tgatacaggt atattttaag caactctgca tgtgtgccag 240  
 aagtccatgg taccctctta 260

<210> 232  
 <211> 596  
 <212> DNA  
 <213> Homo sapien

gagcctggtaa agctggggtt ttaagaatga ggcaaaaac gtgtttaatg gtatttttta ggtgcccaa

<220>  
 <221> misc\_feature  
 <222> (1)...(596)  
 <223> n = A,T,C or G

<400> 232  
 tgctcctctt gccttaccaa ccacaaatta gaaccataat gagatgtcac ctcatacctg 60  
 gtgggattaa cattatttaa aaaatcagaa gtattgacaa ggatgtgaag aaattagaac 120  
 atctgtgcac tgttggtggg aatgtaaaaa aggtgtggcc actatgggta acagcatgaa 180  
 ggttcctcaa aaaaaatttt ttttaattcta ctctatgac gatcttgagg ttgtttatgc 240  
 aaaagaactg aaatcaggat tttgaggaaa tattcacatt cccacatcca tttctgcttt 300  
 attcataata ctcaagagat ggaaacaacc taaatgtcca tcccgggatg aatggataaa 360  
 cacagtgtgg tatatgcata caatggaata ttatttagtc tttaaaaaga aaaattctat 420  
 catatactac aacttanatn aaccttgagg acacaatgct nagtgaaata agccacggaa 480  
 ggacgaatac tgcattattc ctttatatga agtatctaaa gtgggtcaaac tcttanagca 540  
 naaagtaaaa atgggtgggt gccanacagt tggttaggcn agaaganaan cctant 596

<210> 233  
 <211> 96  
 <212> DNA  
 <213> Homo sapien

<400> 233  
 tcttctgaag acctttcgcg actcttaagc tcgtgggttg taaggcaaga ggagcgttgg 60  
 taaggcaaga ggagcgttgg taaggcaaga ggagca 96

<210> 234  
 <211> 313  
 <212> DNA  
 <213> Homo sapien

<400> 234  
 tgtaagtcga gcagtgtgat gataaaactt gaatggatca atagttgctt cttatggatg 60  
 agcaaagaaa gtagtttctt gtgatggaat ctgctcctgg caaaaatgct gtgaacgttg 120  
 ttgaaaagac aacaaagagt ttagagtagt acataaattt agaatagtag ataaacttag 180  
 aatagtagat aaacttagta cataaataat gcacgaagca ggggcagggc ttgagagaat 240  
 tgacttcaat ttggaaagag tatctactgt aggttagatg ctctcaaaca gcatcacact 300  
 gctcgactta caa 313

<210> 235  
 <211> 550  
 <212> DNA  
 <213> Homo sapien

<400> 235  
 aacgaggaca gatccttaaa aagaatgttg agtgaaaaaa gtagaaaata agataatctc 60  
 caaagtccag tagcattatt taaacatttt taaaaaatac actgataaaa attttgtaca 120  
 tttcccaaaa atacatatgg aagcacagca gcatgaatgc ctatgggrtt gaggataggg 180  
 gttgggagta gggatgggga taaaggggga aaataaaacc agagaggagt cttacacatt 240  
 tcatgaacca aggagtataa ttatttcaac tatttgtacc wgaagtccag aaagagtgga 300  
 ggcagaaggg ggagaagagg gcgaagaaac gtttttggga gaggggtccc asaagagaga 360  
 ttttcgcgat gtggcgctac atacgttttt ccaggatgcc ttaagctctg caccctatct 420  
 ttctcatcac taatattaga ttaaacocct tgaagacagc gtctgtggtt tctctacttc 480  
 agctttccct ccgtgtcttg cacacagtag ctgttttaca aggttgaac tgactgaagt 540

gagattatttc

550

<210> 236  
 <211> 325  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 236

tagactgact	catgtcccct	accagagtag	ctagaattaa	tagcacaagc	ctctacaccc	60
aggaactcac	tattgaatac	ataaatggaa	tttattcagc	cttaaaaagt	ttggaaggaa	120
attctgacat	atgctaaaaac	atggatgaac	cttgaagact	ttatgataag	taaaagaagc	180
cagtcataaa	aggaaaaata	ttgcatgatt	ccacttatat	gaggtagcta	gagtagtcaa	240
tttcatagaa	acacaaaata	gaatggtgtt	tgccagggct	tttgaggaaa	aggggaatgac	300
aagttagggg	acatgagtca	gtcta				325

<210> 237  
 <211> 373  
 <212> DNA  
 <213> Homo sapien

&lt;220&gt;

<221> misc\_feature  
 <222> (1)...(373)  
 <223> n = A,T,C or G

&lt;400&gt; 237

tagactgact	catgtcccct	atctactcaa	catttccact	tgaagtctga	taggcatctc	60
agacttatct	tgtcccaaag	caaaactotit	atttcttttc	atcctagtct	ttatttcttg	120
tgtgtgttta	cccatctcaa	aagagtgcc	aaatccacca	agttgtctga	acagaaatct	180
aagaaatctc	cttgattctt	ctttttccca	tctaactcac	ttctaattca	ttagtaaata	240
atctgtttca	gaaaaccaa	cacctcatgt	tctcactcat	aagggggagt	tgaacaatga	300
gaacacacag	acacagggag	gggaacatca	cacaccacgg	cccgtcaggg	agtangggac	360
atgagtcagt	cta					373

<210> 238  
 <211> 492  
 <212> DNA  
 <213> Homo sapien

&lt;220&gt;

<221> misc\_feature  
 <222> (1)...(492)  
 <223> n = A,T,C or G

&lt;400&gt; 238

tagactgact	catgtcccct	ataatgctcc	caggcatcag	aaagcatctc	aaactggagc	60
tgacaccatg	gcagaggttt	caggtaagtc	acaaaagggg	tcctaaagaa	tttgccctca	120
atatcagagt	gattagaaga	agtggacaga	gctacccaag	ttaaacatat	gcgagataaa	180
aaaaatatgg	cacttgtgaa	cacacactac	aggaggaaaa	taaggaacat	aatagcatat	240
tgtgtctatta	tgatgatgaa	gaacctctct	anaagaaaac	ataaccaaag	aaacaaagaa	300
aattcctgcn	aatgtttaat	gctatagaag	aaattaacaa	aaacatatat	tcaatgaatt	360
cagaaaagtt	agcaggtcan	aagaaaacaa	atcaaagacc	agaataatcc	cattttagat	420
tgtcgagtaa	actanaacag	aaagaatacc	actggaaatt	gaattcctac	gtangggaca	480
tgantcantc	ta					492

gagattatttc  
 550  
 <210> 236  
 <211> 325  
 <212> DNA  
 <213> Homo sapien  
 <400> 236  
 tagactgact catgtcccct accagagtag ctagaattaa tagcacaagc ctctacaccc 60  
 aggaactcac tattgaatac ataaatggaa tttattcagc cttaaaaagt ttggaaggaa 120  
 attctgacat atgctaaaaac atggatgaac cttgaagact ttatgataag taaaagaagc 180  
 cagtcataaa aggaaaaata ttgcatgatt ccacttatat gaggtagcta gagtagtcaa 240  
 tttcatagaa acacaaaata gaatggtgtt tgccagggct tttgaggaaa aggggaatgac 300  
 aagttagggg acatgagtca gtcta 325  
 <210> 237  
 <211> 373  
 <212> DNA  
 <213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(373)  
 <223> n = A,T,C or G  
 <400> 237  
 tagactgact catgtcccct atctactcaa catttccact tgaagtctga taggcatctc 60  
 agacttatct tgtcccaaag caaaactotit atttcttttc atcctagtct ttatttcttg 120  
 tgtgtgttta cccatctcaa aagagtgcc aaatccacca agttgtctga acagaaatct 180  
 aagaaatctc cttgattctt ctttttccca tctaactcac ttctaattca ttagtaaata 240  
 atctgtttca gaaaaccaa cacctcatgt tctcactcat aagggggagt tgaacaatga 300  
 gaacacacag acacagggag gggaacatca cacaccacgg cccgtcaggg agtangggac 360  
 atgagtcagt cta 373  
 <210> 238  
 <211> 492  
 <212> DNA  
 <213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> (1)...(492)  
 <223> n = A,T,C or G  
 <400> 238  
 tagactgact catgtcccct ataatgctcc caggcatcag aaagcatctc aaactggagc 60  
 tgacaccatg gcagaggttt caggtaagtc acaaaaagggg tcctaaagaa tttgccctca 120  
 atatcagagt gattagaaga agtggacaga gctacccaag ttaaacatat gcgagataaa 180  
 aaaaatatgg cacttgtgaa cacacactac aggaggaaaa taaggaacat aatagcatat 240  
 tgtgtctatta tgatgatgaa gaacctctct anaagaaaac ataaccaaag aaacaaagaa 300  
 aattcctgcn aatgtttaat gctatagaag aaattaacaa aaacatatat tcaatgaatt 360  
 cagaaaagtt agcaggtcan aagaaaacaa atcaaagacc agaataatcc cattttagat 420  
 tgtcgagtaa actanaacag aaagaatacc actggaaatt gaattcctac gtangggaca 480  
 tgantcantc ta 492

<210> 239  
 <211> 482  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(482)  
 <223> n = A,T,C or G

<400> 239  
 tggaaagtat ttaatgatgg gcaacttgct gtttacttcc tacatatccc atcatcttct 60  
 gtattttttt aaataacttt tttttggatt tttaaagtaa ccttattctg agaggtaaca 120  
 tggattacat acttctaagc cattaggaga ctctatgtta aacccaaaagg aaatgttact 180  
 agatcttcat ttgatcaata ggatgtgata atcatcatct ttctgctcta atggaaaagt 240  
 actanaaaca tggaaccata atcttagatg aacaacgtta gaatttgcac taattctacg 300  
 gaatttcagt aattcggcaa atgtcgggca gtgacacaac atttcatgac ggggacgcat 360  
 ctaccaactt ctggcgataa gggccaccct tccctctgta cttacagtcc catttcatac 420  
 acagtctttg attaaatatt cacatTTTTT ctctacctaa agaccttcaa gaccagtacg 480  
 ta 482

<210> 240  
 <211> 519  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(519)  
 <223> n = A,T,C or G

<400> 240  
 tgtatcgacg tagtggtctc cccatgtgat agtctgaaat atagcctcat gggatgagag 60  
 gctgtgcccc agcccgacac ccgtaaaggg tctgtgctga ggtggattag taaaagagga 120  
 aagccttgca gttgagatag aggaagggca ctgtctcctg cctgcccctg ggaactgaat 180  
 gtctcggtat aaaaccgat tgtacatttg ttcaattctg agataggaga aaaaccaccc 240  
 tatggcgggga ggcgagacat gttggcagca atgctgcctt gttatgcttt actccacaga 300  
 tgtttgggag gagggaaaca taaatctggc ctacgtgcac atccaggcat agtacctccc 360  
 tttgaactta attatgacac agattccttt gtcacatgt ttttttgctg accttctcct 420  
 tattatcacc ctgctctcct accgcattcc ttgtgctgag ataataaaaa taatatcaat 480  
 aaaaacttga nggaactcgg agaccactac gtcgatata 519

<210> 241  
 <211> 771  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(771)  
 <223> n = A,T,C or G

<400> 241

tgtatcgacg	tagtgggtctc	cactcccgcc	ttgacggggc	tgctatctgc	cttccaggcc	60
actgtcacgg	ctcccgggta	gaagtcactt	atgagacaca	ccagtgtggc	cttgttggt	120
tgaagctcct	cagaggaggg	tgggaacaga	gtgaccgagg	gggcagcctt	gggctgacct	180
aggacgggtca	gcttgggtccc	tccgccaaac	acgagagtgc	tgctgcttgt	atatgagctg	240
cagtaataat	cagcctcgtc	ctcagcctgg	agcccagaga	tggtcaggga	ggcctgttg	300
ccanacttgg	agccagagaa	gcgattagaa	acccctgagg	gccgattacc	gacctcataa	360
atcatgaatt	tgggggcttt	gcctgggtgc	tggttggtacc	angagacatt	attataacca	420
ccaacgtcac	tgctggttcc	antgcaggga	aaatggttga	tcnaactgtc	caagaaaacc	480
actacgtcca	taccaatcca	ctaattgccn	gccgcctgca	ggttcaacca	tattggggaa	540
naactcccn	ccgccgtttg	ggattgncat	naaccttga	aattttttcc	tattanttgt	600
ccccctaaaa	taaaccnttg	ggcnttaatc	cattgggtcc	atancttntt	tncccggttt	660
ttaaaanttg	tttatccgcg	cncnctttt	ccccccaaac	tttccaaaac	ccgaaaccnt	720
tnaaatttnt	tnaaacctg	gggggttccc	nnaattnnan	ttnaancnnc	c	771

&lt;210&gt; 242

&lt;211&gt; 167

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 242

ttgggcacct	caatatcggg	ctcatcgata	acatcacgct	gctgatgctg	ctgttgctgg	60
tcctctctag	gaacctctgg	attttcaaat	tctttgagga	attcatccaa	attatctgcc	120
tctcctcctt	tctcctttt	tctaaggtct	tctggtacaa	gcggtca		167

&lt;210&gt; 243

&lt;211&gt; 338

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 243

ttgggcacct	tcaatatcta	ctgatctaaa	tagtgtggtt	tgaggcctct	tgttcctggc	60
taaaaatcct	tggcaagagt	caatctccac	tttacaatag	aggtaaaaat	cttacaatgg	120
atattcttga	caaagctagc	atagagacag	caattttaca	caaggatatt	ttcacctgtt	180
taataacagt	ggttttctta	cacccatagg	gtgccaccaa	gggaggagtg	cacagttgca	240
gaaacaaatt	aagatactga	agacaacact	acttaccatt	tcccgatatag	ctaaccacca	300
gttcaactgt	acatgtatgt	tcttatgggc	aatcaaga			338

&lt;210&gt; 244

&lt;211&gt; 346

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 244

tttttggctc	ccatacagca	cactctcatg	ggaaatgtct	gttctaaggt	caaccataa	60
tgcaaaaatc	atcaatatac	ttgaagatcc	ccgtgtaagg	tacaatgtat	ttaatattat	120
cactgatata	attgatccaa	taccagtttt	agtctggcat	tgaatcaa	cactgttttt	180
gttgataaaa	aagagaaaata	tttagottat	atttaagtac	catattgtaa	gaaaaaagat	240
gcttatcttt	acatgctaaa	atcatgatct	gtacattggg	gcagtgaata	ttactgtaaa	300
agggagaag	gaatgaagac	gagctaagga	tattgaaggt	gcccaa		346

&lt;210&gt; 245

&lt;211&gt; 521

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(521)  
 <223> n = A,T,C or G

<400> 245

accaatccca	cacggatact	gagggacaag	tatatcatcc	catttcatcc	ctacagcagc	60
aacttcatga	ggcaggagtt	attagtccca	ttttacagaa	gaggaaactg	agacttaggg	120
agatcaagta	atttgcccag	gtcgcacaat	tagtgataga	gccagggctt	gaagcgacgt	180
ctgtcttaag	ccaatgacct	ctgcagatta	ttagagcaac	tggtctccac	aacagtgtaa	240
gcctcttgct	anaagctcag	gtccacaagg	gcagagattt	ttgtctgttt	tgctcattgc	300
tccttcccca	ttgcttagag	cagggctctgc	cacgaancag	gttctcaatg	catagttatt	360
aaatgtatat	aagagcaaac	atatgtttaca	gagaactttc	tgtatgcttg	tcacttacat	420
gaatcacctg	tganatgggt	atgcttggtc	cccantgttg	cagatnaaga	tattgaangt	480
gcccaaata	ctanttgagg	gcgcctgcan	gtccancata	t		521

<210> 246  
 <211> 482  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(482)  
 <223> n = A,T,C or G

<400> 246

tggaaccaat	ccaaataccc	atcaatgata	gactggataa	agaaaatttg	gcacatgttc	60
accatgaaat	actatgcagc	cataaaaaag	gatgagttca	tatcctttgc	agggacatgg	120
atgaagctgg	agaccatcat	tctcagcaaa	ctaacaaggg	aacagaaaac	caaacactgc	180
atgtttctcac	tottaagtgg	gagctgaaca	atgagaacac	atggacacag	ggaggggaac	240
atcacacagt	ggggcctgct	gggtgggtagg	gggtctagggg	agggatagca	ttaggagaaa	300
tacctaattgt	agatgacggg	ttgatgggtg	cagcaaacca	ccatgacacg	tgtataccta	360
tgtatacaaac	ctgcatgttc	tgcacatgta	ccccagaact	taaagtgtta	ataaaaaaat	420
taagaaaaaa	gttaagtatg	tcatagatac	ataaaatatt	gtanatattg	aaggtgcccc	480
aa						482

<210> 247  
 <211> 474  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(474)  
 <223> n = A,T,C or G

<400> 247

ttcgatacag	gcacagagta	agcagaaaaa	tggctgtggg	ttaaccaagt	gagtacagtt	60
aagtgagaga	ggggcagaga	agacaagggc	atatgcaggg	ggtgattata	acaggtgggt	120
gtgctgggaa	gtgagggtag	tcggggatga	ggaacagtga	aaaagtggca	aaaagtggta	180
agatcagtga	attgtacttc	tccagaatth	gatttctggg	ggagtcaa	aactatccag	240
tttgggggat	catanggcaa	cagttgaggt	ataggaggta	gaagtcncag	tgggataatt	300

gaggttatga anggtttggg actgactggg actgacaang tctgggttat gaccatggga 360  
 atgaatgact gtanaagcgt anaggatgaa actattccac ganaaagggg tccnaaaact 420  
 aaaaannnaa gnnnnngggg aatattatatt atgtggatat tgaangtgcc caaa 474

<210> 248  
 <211> 355  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(355)  
 <223> n = A,T,C or G

<400> 248  
 ttcgatacag gcaaacatga actgcaggag ggtggtgacg atcatgatgt tgccgatggg 60  
 ccggatggnc acgaagacgc actggancac gtgcttacgt ccttttgctc tgttgatggc 120  
 cctgagggga cgcaggaccc ttatgaccct cagaatcttc acaacgggag atggcactgg 180  
 attgantccc antgacacca gagacacccc aaccaccagn atatcantat attgatgtag 240  
 ttctgtaga nggccccctt gtggaggaaa gctccatnag ttgggtcatct tcaacaggat 300  
 ctcaacagtt tccgatggct gtgatgggca tagtcatant taaccntgtn tcgaa 355

<210> 249  
 <211> 434  
 <212> DNA  
 <213> Homo sapien

<400> 249  
 ttggattggg cctccaggag aacaagggga aaaaggtgac cgagggtctc ctggaactca 60  
 aggatctcca ggagcaaaaag gggatggggg aattcctggg cctgctgggc ccttaggtcc 120  
 acctggtcct ccaggcttac caggctctca aggcccaaag ggtaacaaag gctctactgg 180  
 acccgctggc cagaaaagggtg acagtgggtct tccagggcct cctgggcctc cagggtccacc 240  
 tgggtgaagtc attcagcctt taccaatctt gtctctcaaa aaaacgagaa gacatactga 300  
 aggcattgcaa gcagatgcag atgataatat tcttgattac tcggatggaa tggaagaaat 360  
 atttggttcc ctcaattccc tgaaacaaga catcgagcat atgaaatttc caatgggtac 420  
 tcagaccaat ccaa 434

<210> 250  
 <211> 430  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(430)  
 <223> n = A,T,C or G

<400> 250  
 tggattgggc acatggcaga gacaggattc caaggcagtg agaggaggat acaatgcttc 60  
 tcaactagtta ttattattta ttttattttt gagatgaagt ctgcctttgt ctcccaggct 120  
 ggagagcggt ggtgcgatct tggctctctg caacccccgc ctcaagcaat tctcctgtct 180  
 tagcctcgcg ggtagatgga attacaggcg cccacogcca tgcccaacta atttttttgt 240  
 gtcttcagta gagacagggt ttcgccatgt tgggcaggct ggtcttgaac tctgacctc 300  
 nagtgatctg cctcctcctg cctcacaaaag tgctggaatt acaggcatgg gctgctgcac 360

ccagtcaact tctcactagt tatggcctta tcattttcac cacattctat tggcccaaaa 420  
 aaaaaaaaaa 430

<210> 251  
 <211> 329  
 <212> DNA  
 <213> Homo sapien

<400> 251  
 tgggtactcca ccatyatggg gtcaaccgcc atcctcgccc tctcctggc tgttctccaa 60  
 ggagtctgtg ccgaggtgca gctgrtgag tctggagcag aggtgaaaaa gtccggggag 120  
 tctctgaaga tctcctgtaa gggttctgga tacaccttta agatctactg gatcgcttgg 180  
 gtgcgccagt tgcccgggaa aggcctggag tggatggggc tcatctttcc tgatgactct 240  
 gataccagat acagcccgtc cttccaagc caggtcacca tctcagtcga taagtccatc 300  
 agcaccgcct atctgcagtg gagtaccaa 329

<210> 252  
 <211> 536  
 <212> DNA  
 <213> Homo sapien

<400> 252  
 tgggtactcca ctcagcccaa ccttaattaa gaattaagag ggaacctatt actattctcc 60  
 caggtccttc tgctctaacc aggtctctgg gacagtatta gaaaaggatg tctcaacaag 120  
 tatgtagatc ctgtactggc ctaagaagtt aaactgagaa tagcataaat cagaccaaac 180  
 ttaatggtcg ttgagacttg tgtcctggag cagctgggat aggaaaactt ttgggcagca 240  
 agaggaagaa ctgcctggaa gggggcatca tgttaaaaat tacaagggga acccacacca 300  
 ggcccccttc ccagctctca gcctagagta ttagcatttc tcagctagag actcacaact 360  
 tcttgctta gaatgtgcca ccggggggag tccctgtggg tgatgaggct ctcaagagtg 420  
 agagtggcat cctatcttct gtgtgccac aggagcctgg ccgagactt agcaggtgaa 480  
 gtttctggtc caggctttgc ccttgactca ctatgtgacc tctggtggag taccaa 536

<210> 253  
 <211> 507  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(507)  
 <223> n = A,T,C or G

<400> 253  
 ntgttgatc cccagtaact cgggaagctg aggcggggag atcacctgag ctccaggaggt 60  
 tgaggccgca gtgagccggg accacgccac tacactccag cctggggcat agagtggagc 120  
 cctccaagac agaaaagaaa agaaagggaag ggaagggaag agggaaaagg aaaaggaaaa 180  
 ggaaaaggaa aaggaaaaga caagacaaaa caagacttga atttggatct cctgacttca 240  
 attttatgtt cttctacac cacaattcct ctgcttacta agatgataat ttagaaacct 300  
 ctggttccat tctttacagc aagctggaag tttggtcaag taattacaat aatagtaaca 360  
 aatttgaata ttatatgcca ggtgtttttc attcctgctc tcaattaat ctcaccactc 420  
 tgatataaat acaattgctg ccgggtgtgg tggctcatgc ctgtaatccc ggcactttgg 480  
 gagaccgagg tgggcggats gcaacaa 507

<210> 254



<211> 222  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(222)  
 <223> n = A,T,C or G

<400> 254  
 ttggattggt cactgtgagg aagccaaatc ggatccgaga gtctttttct aaaggccagt 60  
 actggccaca ctttctcctg ccgccttcct caaagctgaa gacacacaga gcaaggcgct 120  
 tctgttttac tccccaatgg taactccaaa ccatagatgg ttagctnccc tgctcatctt 180  
 tccacatccc tgctattcag tatagtcctg ggaccaatcc aa 222

<210> 255  
 <211> 463  
 <212> DNA  
 <213> Homo sapien

<400> 255  
 tggtgcatc cataaatgct gaaatggaaa taaacaacat gatgagggag gattaagttg 60  
 gggagggagc acattaaggt ggccatgaag tttgttgaa gaagtgactt ttgaacaagg 120  
 ccttggtgtt aagagctgat gagagtgtcc cagacagagg ggccactggt acaatagacg 180  
 agatgggaga gggcttgaa ggtgtgcgaa ataggaagga gtttgttctg gtatgagtct 240  
 agtgaacaca gaggcgagag gccctggtgg gtgcagctgg agagttatgc agaataacat 300  
 taggccctgt gggggactgt agactgtcag caataatcca cagtttggtt tttattctaa 360  
 gagtgatggg aagccgtgga aaggggggta agcaaggagt gaaattatca gatttacagt 420  
 gataaaaata aattggtctg gctactgggg aaaaaaaaaa aaa 463

<210> 256  
 <211> 262  
 <212> DNA  
 <213> Homo sapien

<400> 256  
 ttggattggt caacctgctc aactctacyt ttctctcttc ttcttaaaaa attaatgaat 60  
 ccaatacatt aatgccaaaa cccttgggtt ttatcaatat ttctgttaaa aagtattatc 120  
 cagaactgga cataatacta cataataata cataacaacc ccttcatctg gatgcaaaca 180  
 tctattaata tagcttaaga tcactttcac ttacagaag caacatcctg ttgatgttat 240  
 tttgatgttt ggaccaatcc aa 262

<210> 257  
 <211> 461  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(461)  
 <223> n = A,T,C or G

<400> 257  
 gnggnnnnnn nnncaattcg actcngttcc cntggtancc ggctcgacatg gccgcgggat 60

```

taccgcttgt nnctgggggt gtatggggga ctatgaccgc ttgtagctgg ggggtgtatg 120
gggactatga ccgctttag mtggkgtgt atgggggact atgaccgctt gtcgggtggt 180
cggataaacc gacgcaagg acgtgatcga agctgcgttc ccgctctttc gcacggttag 240
ggatcatgga cagcaatatt cgcattcgyt tgaaggcgtt cgaccatcgc gtgctcgatc 300
aggcgaccgg cgacatcgcc gacaccgcac gccgtaccgg cgcgctcatc cgcggtcgga 360
tcccgtttcc cagcgcgcatc gagaagttca cgggtcaaccg tggcccgcac gtcgacaaga 420
agtcgcgcga gcagttcgag gtgcgtacct acaagcggtc a 461

```

<210> 258

<211> 332

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(332)

<223> n = A,T,C or G

<400> 258

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tgaccgcttg tagctggggg tgtatggggg actacgaccg cttgtagctg ggggtgtatg 60
gggactatg accgcttgta gctgggggtg tatgggggac tatgaccgct tgtagctggg 120
ggtgtatggg ggactaggac cgctttagtc tgggggtgta tgggggacta tgaccgcttg 180
tagctggggg tgtatggggg actacgaccg cttgtagctg ggggtgtatg ggggactatg 240
accgcttgta nctgggggtg tatgggggac tatgaccgct tgtgctgcct gggggatggg 300
aggagagttg tggttgggga aaaaaaaaaa aa 332

```

<210> 259

<211> 291

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(291)

<223> n = A,T,C or G

<400> 259

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taccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt 60
gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt 120
gaccgcttgt gaccgcttgt nacngggggg gtctggggga ctatgannga ntgtnactgg 180
gggtgtctgg gggctatga nngantgtna cnggggggtg ctgggggact atganngact 240
gtgcnnctg ggggatcnga ggagantngn ggntagnat ggttnnggan a 291

```

<210> 260

<211> 238

<212> DNA

<213> Homo sapien

<400> 260

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taagagggtg ctggttaaaa tacaggaaat ctggggtaat gaggcagaga accaggatac 60
tttgagggtc gggatgaaaa ctagaatttt tttctttttt tttgcctgag aaacttgctg 120
ctctgaagag gccatgtat taattgcttt gatcttcctt ttcttacagc cctttcaagg 180
gcagagccct ccttatcctg aaggaatott atccttagct atagtatgta ccctctta 238

```

<210> 261  
 <211> 746  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(746)  
 <223> n = A,T,C or G

<400> 261  
 ttgggcacct tcaatatcaa tagctaacat ttattgagtg tttatcgtat cataaaacac 60  
 tgttctaagc ctttaaacgt actaattcat ttaatgctca taatcacttt agaaggtggg 120  
 tactagtatt agtctcattt acagatgcaa catgcaggca cagagagggt aattaacttg 180  
 cccaaggtaa cacagctaag aaatagaaaa aatattgaat ctggaaagtt gggcttcttg 240  
 gtaaccacaca gagtcttcaa tgagcctggg gcctcactca gtttgctttt acaaagcgaa 300  
 tgagtaacat cacttaattc agtgagtagg ccaaattggag gtcagctacg agtttctgct 360  
 gttcttgacg tggactgaca gatgtttaca acgtctggcc atcagtwaat ggactgatta 420  
 tcattgggaw gtgggtgggc tgaatgttg ccagtgaagt ttattcawgc catattttta 480  
 tgtttaggat gacttttggc tggctcctagg gcaagctctg tctgscacgg aacacagaat 540  
 wacacaggga cccctcaat ttctggtgtg gctagaacca tgaaccactg gttgggggaa 600  
 caagcggcca aaacctaaagt gggcgccgct ggcagggtcc acccatatgg ggaaaactcc 660  
 cnacgcgttt ggaatgcctn agctngaatt attctaanaag ttgtccnctt aaaattagcc 720  
 tgggcgttaa tcanggtcn naagcc 746

<210> 262  
 <211> 588  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(588)  
 <223> n = A,T,C or G

<400> 262  
 tgaccgcttg tcatctcaca tggggctcctg cacgcttttg cctttgtagg aaacctgaca 60  
 tttgtctggt tcttctttct cttttccttc ccatatcctc ctaatttacg tttgacttgt 120  
 ttgctgagga ggcaggagct agagactgct gtgagctcat aggggtggga agtttatcct 180  
 tcaagtcccg cccactcatc actgcttctc accttccctt gaccaggctt acaagtgggt 240  
 tcttgctgac tttccctttg gacccaacaa gccctgttaa tgagtgtgca tgactctgac 300  
 agctgtggac tcagggtcct tggctacagc tgccatgtaa aatatctcat ccagttctcg 360  
 caaattgtta aaataaccac atttcttaga ttccagtacc caaatcatgt ctttacgaac 420  
 tgctcctcac acccagaagt ggcacaataa ttcttgggga attattactt ttttttttct 480  
 ctctnttnc gnnngnnnng gnnngnccag gaattaccac nttggaagac ctggccngaa 540  
 tttattatan aggggagccg attntttttt ctaacacaaa gcgggtca 588

<210> 263  
 <211> 730  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature

<222> (1)...(730)

<223> n = A,T,C or G

<400> 263

tttttttttt	tttggcctga	gcaactgaaa	ttatgaaatt	tccatatact	caaaagagta	60
agactgcaaa	aagattaaat	gtaaaagttg	tcttgtatac	agtaatgttt	aagataccta	120
ttanatttat	aaatggaaaa	ttagggcatt	tggatataca	agttgaaaat	tcaggagtga	180
ggttgggctg	gctgggtata	tactgaaaac	tgctagtaca	cagatgacat	ctaaaaccac	240
aaatctgggt	ttatttttagc	agtgatatgt	gtcactccca	caaaagcctt	cccaattggc	300
ctcagcatac	acaacaagtc	acctccccac	agccctctac	acataaacia	attccttagt	360
ttagttcagg	aggaaatgcg	cccttttctt	tccgctctag	gtgaccgcaa	ggcccagttc	420
tcgtcaccaa	gatgttaagg	gaagtctgcc	aaagaggcat	ctgaaaggaa	ataaggggaa	480
tgggagtga	cacaaaggaa	agccaaggan	aaactttgga	gaccgtttct	aganccttgg	540
catttcacaa	caaaactcng	gaacaaacct	tgtctcatca	atcatttaag	cccttcgttt	600
ggannagact	ttctgaactg	ggcgctgaac	ataancctca	ttgaatgtct	tcacagtctc	660
ccagctgaag	gcacaccttg	ggccagaagg	ggaatcttcc	aggtcctcaa	nacagggctc	720
gccctttgnc						730

<210> 264

<211> 715

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(715)

<223> n = A,T,C or G

<400> 264

tttttttttt	tttggccagt	atgatagtct	ctaccactat	attgaagctc	ttaggtcatt	60
tacacttaat	gtggttatag	atgctgttga	gcttacttct	accaccttgc	tatttctccc	120
gtctcttttt	tgttcctttt	ctcttctttt	cctcccttat	tttataattg	aatttttttag	180
gattctattt	tatatagatt	tatcagctat	aacactttgt	attcttttgt	tttgtgggtc	240
ttctgtcatt	tcaatgtgca	tcttaaactc	atcacaatct	attttcaa	aatatcatat	300
aaccttacat	ataatgtaag	aatctaccac	catatatattc	catttctccc	ttccatccta	360
tgtntgtcat	attttttcct	ttatatatgt	tttaaagaca	taatagtata	tgggaggttt	420
ttgcttaaaa	tgtgatcaat	attccttcaa	ngaaacgtaa	aaattcaaaa	taaatntctg	480
tttattctca	aatnnaccta	atatttctta	ccatntctna	tacntttcaa	gaatctgaag	540
gcattgggtt	tttccggctt	aagaacctcc	tctaaagcac	tctaagcaga	attaagtctt	600
ctgggagagg	aattctccca	agcttgggac	ttnanntgta	ctccntnang	gttaaanttt	660
ggccgggaaa	tagaaattcc	aagttaacag	gntanttttt	nttttnttn	tcncc	715

<210> 265

<211> 152

<212> DNA

<213> Homo sapien

<400> 265

tttttttttt	tttcccaaca	caaagcacca	ttatctttcc	tcacaatttt	caacatagtt	60
tgattcccat	gaagagggtta	tgatttctaa	agaaaacatg	gctactatac	tatcaatcag	120
ggttaaattct	tttttttttg	agacggagtt	ta			152

<210> 266

<211> 193

<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(193)  
<223> n = A,T,C or G

<400> 266  
taaactccgt ccccttctta atcaatatgg aggctacca ctccacatta ccttcttttc 60  
aagggactgt ttccgtaact gttgtgggta ttcacgacca ggcttctaaa cctcttaaaa 120  
ctccccaatt ctgggtgcaa cttggacaac atgctttttt tttttttttt tttttttttt 180  
gagacggagt tta 193

<210> 267  
<211> 460  
<212> DNA  
<213> Homo sapien

<400> 267  
tggtgcgac ccttaagcat ggggtgctatt aaaaaaatgg tggagaagaa aatacctgga 60  
atttacgtct tatcttttaga gattgggaag accctgatgg aggacgtgga gaacagcttc 120  
ttcttgaatg tcaattccca agtaacaaca gtgtgtcagg cacttgctaa ggatcctaaa 180  
ttgcagcaag gctacaatgc tatgggattc tcccagggag gccaatttct gagggcagtg 240  
gctcagagat gcccttcacc tcccatgac aatctgatct cggttggggg acaacatcaa 300  
gggtgttttg gactccctcg atgccaggga gagagctctc acatctgtga cttcatccga 360  
aaaacactga atgctggggc gtactccaaa gttgttcagg aacgcctcgt gcaagccgaa 420  
tactggcatg acccataaaa ggaggatgtg gatcgcaaca 460

<210> 268  
<211> 533  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(533)  
<223> n = A,T,C or G

<400> 268  
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accttcgccc gtggggaccc cgagtacgtc tacggcgctcgc tcaacttagag taccctctgg 120  
acgcccgggc gcgttcgatt taccggaagc gcgagctgca gtgggcttgc gccccgggc 180  
aaattctttg ggggggttaa ggccgcgggg aatttgaggt atctctatca gtatgtagcc 240  
aagttggaac agtcgccatt ccgaaatcg ctttctttga atccgcaccg cctccagcat 300  
tgccctattc atcaacctga aggcacgcat aagtgaagggt tgtgtcttca gcagctccac 360  
tccataacta gcgcgctcga cctcgtcttc gtacgcgcca ggtccgtgcg tgcgaattcc 420  
caactccggt gagttgcgca tttcaagttt cgaaactgtt cgctccacn atttggcatg 480  
ttcacgcatg acacggaata aactcgtcca gtaccgggaa tgggatcgca aca 533

<210> 269  
<211> 50  
<212> DNA  
<213> Homo sapien

<400> 269  
 tttttttttt ttgcctgaa ttagctacag atcctcctca caagcggta 50

<210> 270  
 <211> 519  
 <212> DNA  
 <213> Homo sapien

<400> 270  
 tgttgcgatc caaataaacc accagcttct tgcacacttc gcagaagcca ccgtcctttg 60  
 gctgagtcac gtgaacggtc agtgcaagca gccgcgtgcc agagcagagg tgcagcatgc 120  
 tgcacaccag ctccagggtg acctcctcca gcaggatgga caggatggag ctgccgtacg 180  
 tgccaccac ctccctggcac ttttcgcaca gggacttcgg cagcttcgag cacattttgt 240  
 caaaagcgtc gagtatttct ttctcagtct tgttgttgtc aatcagcttg gtcacctcct 300  
 tcaccaggaa ttcacacacc tcacagtaaa catcagactt tgctgggacc tcgtgcttct 360  
 taatgggctc caccagttcc agggcaggga tgacattctt ggaggccact ttggcgggga 420  
 ccagagtctg catgggcac tttttcacct catcacagaa cccaaccagc gcacagatct 480  
 ccttggttg catgtgcac atcatctggg atcgcaaca 519

<210> 271  
 <211> 457  
 <212> DNA  
 <213> Homo sapien

<400> 271  
 tttttttttt ttcgggcggc gaccggacgt gcactcctcc agtagcggct gcacgtcgtg 60  
 ccaatggccc gctatgagga ggtgagcgtg tccggcttcg aggagttcca ccgggccgtg 120  
 gaacagcaca atggcaagac cattttcgcc tactttacgg gttctaagga cgcggggggg 180  
 aaaagctggt gccccgactg cgtgcaggct gaaccagtcg tacgagaggg gctgaagcac 240  
 attagtgaag gatgtgtgtt catctactgc caagtaggag aagagcctta ttggaaagat 300  
 ccaaataatg acttcagaaa aaacttgaaa gtaacagcag tgcctacact acttaagtat 360  
 ggaacacctc aaaaactggt agaactctgag tgtcttcagg ccaacctggt ggaaatgttg 420  
 ttctctgaag attaagattt taggatggca atcaaga 457

<210> 272  
 <211> 102  
 <212> DNA  
 <213> Homo sapien

<400> 272  
 tttttttttt ttgggcaaca acctgaatac cttttcaagg ctctggcttg ggctcaagcc 60  
 cgcaggggaa atgcaactgg ccaggtcaca gggcaatcaa ga 102

<210> 273  
 <211> 455  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(455)  
 <223> n = A,T,C or G

&lt;400&gt; 273

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ggcaatcaac	aggtttaagt	cttcggccga	agttaatctc	gtgttttttg	caatcaacag	120
gtttaagtct	tcggccgaag	ttaatctcgt	gtttttggca	atcaacaggt	ttaagtcttc	180
ggccgaagtt	aatctcgtgt	ttttggcaat	caacagggtt	aagtcttcgg	ccgaagttaa	240
tctcgtgttt	ttggcaatca	acaggtttaa	gtcttcggcc	gaagttaatc	tcgtgttttt	300
ggcaatcaag	aggtttaagt	cttcggccga	agttaatctc	gtgttttttg	caatcaacag	360
gtttaagtct	tcggccgaan	ttaatctcgt	gtttttggca	atcaacaggt	ttaantcttc	420
ggccgaagtt	aatctcgtgt	ttttggcaat	caana			455

&lt;210&gt; 274

&lt;211&gt; 461

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 274

tttttttttt	ttggccaata	cccttgatga	acatcaatgt	gaaaatcctc	ggtaaaatac	60
tggaacaacca	aatccagcag	cacatcaaaa	agcttatcca	ccatgatcaa	gtgggcttca	120
tccctgggat	gcaaggctgg	ttcaacataa	gaaaatcaat	aaatgtaatc	catcacataa	180
acagaaccaaa	agacaaaaac	cacatgatta	tctcaataga	tgcagaaaag	gccttggaaca	240
aattcaacag	cccttcattgc	ttaacactct	taataaaacta	gatattgatg	gaatgtatct	300
caaaaataata	agagctatatt	atgacaaacc	cacagccaat	atcatactga	atgggcaaaag	360
actggaagca	ttcccttttga	aaactggcac	aagacaagga	tgccctctct	caccgctcct	420
attcaacata	gtattggaag	ttctggccag	ggcaatcaag	a		461

&lt;210&gt; 275

&lt;211&gt; 729

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(729)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 275

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ctcccaaac	cccaccttca	cagcctcttc	cacacgtctc	ccanagattg	ttgtccttca	180
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ncantaagca	gaantacgat	gactttgana	nacanctgat	gaagaacacn	ctacnganaa	300
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accngncttg	ngngncantn	cnncctcnca	ccntgtttcc	ctgnngtnaa	aatnngtttt	480
nccgcncncc	naattccac	ccnaatcaca	gcgaancng	aaggccttcn	naagtgttta	540
angcccnng	gtttcctcnt	ntanttgacg	cctaccctcc	cncctnnnnnt	tncngtgg	600
tcgcgcctg	gncncgcctn	gttccctctt	nnggnnaca	cctngntcnn	nggcncntcn	660
nnctnttcc	tnnnactagc	tngcctntcc	nncnccnggn	ncanngcaca	ttncncnnac	720
tntgtnncc						729

&lt;210&gt; 276

&lt;211&gt; 339

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 276

tgacctgaca	tgtagtagat	acttaataaa	tatttgtgga	atgaatggat	gaagtggagt	60
tacagagaaa	aatagaaaag	tacaaattgt	tgtcagtgtt	ttgaaggaaa	attatgatct	120
ttcccaaagt	tctgacttca	ttctaagaca	gggtagtat	ctccatacat	aattttactt	180
gcttttgaaa	atcaaagtag	ataatctatt	tagattgata	atatttttag	actggctata	240
aactattaag	tgctagcaaa	tatacatttt	aatctcattt	tccacctctt	gtgatatagc	300
tatgtaggtg	ttgactttaa	tggaatgcag	gtcaatccc			339

&lt;210&gt; 277

&lt;211&gt; 664

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(664)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 277

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actctttgta	atggctttca	tctaaaataa	catggtagct	gccaccagtt	tcacgagcaa	420
gtacagtcca	aacgcgaact	tctgcagaca	atccaataac	agataactcta	atttttagctg	480
ccttttaggtg	cttgattaaa	tcataaatat	tagatggatc	gcaagttgta	aggntgctaa	540
aagatgatta	gtacttctcg	acttgtatgt	ccaggcatgt	tgttttaaan	tctgccttag	600
ncctgctta	ggggaatttt	taaagaagat	ggctctccat	gttcanggtc	aatcacnaat	660
tgcc						664

&lt;210&gt; 278

&lt;211&gt; 452

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(452)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 278

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gacacagagt	gggcctctga	taattcatga	aatgcattct	gaagtcaccc	agaatggagg	120
ctgcaatctg	ctgtgctttg	ggggttgcct	caactgtgctc	ctggatatca	cacaaaagct	180
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gatacatagc	ccatagtgcc	cagagctgaa	cctctggttg	agagaagttg	ccaaggagcg	300
ggaaaaatgt	cttgaaagat	ctataggtca	ccaatgctgt	catcttacia	cttgaacttg	360
gccaatctctg	tatggttgca	tgcatatctt	ggagaagagt	acgcctctgg	aagtcacggg	420
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&lt;210&gt; 279



<211> 274  
 <212> DNA  
 <213> Homo sapien

<400> 279

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ccctggttct	gtgtcgtgtc	cccattggct	ggagtcagac	tgacaaatct	acactgaccc	180
aactggctac	tgtttaaaat	tgaatatgaa	taattaggta	ggaaggggga	ggctgtttgt	240
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<210> 280  
 <211> 272  
 <212> DNA  
 <213> Homo sapien

<400> 280

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gttgaatgga	aaaggtgagt	ttcagaagga	tatatatgcc	ctctaaatcc	atttatgtaa	180
acctttaaaa	aactacatta	tttatgggtca	taagtccatc	cagaaaatat	ttaaaaacct	240
acatgggatt	gataactact	gatgtcaggt	ca			272

<210> 281  
 <211> 431  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(431)  
 <223> n = A,T,C or G

<400> 281

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aattttttat	ttctcttgaa	taatcaaaag	agtaggcaac	attggttcct	cattcttgaa	120
tagcattaat	cagaaaatat	tgcatagcct	ctagcctcct	tagagtaggt	gtgctctctc	180
aaatatatca	tagtcccaca	gtttattttca	tgtatatatt	ctgcctgaat	cacatagaca	240
tttgaatttg	caacgcctga	tgtaaaatata	taaattotta	ccaatcagaa	acatagcaag	300
aaattcagg	acttgggtcat	yatcagggtta	tgacagcana	tcctgtara	aacactgata	360
cacactcaca	cacgtatgca	acgtggagat	gtcgcyttww	kkktwywcm	rmrycrwcn	420
aatcacttan	n					431

<210> 282  
 <211> 98  
 <212> DNA  
 <213> Homo sapien

<400> 282

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tggacaacag	agcgagtccc	tgtgccaaaa	aaaaaaaa			98

<210> 283  
 <211> 764

<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(764)  
<223> n = A,T,C or G

<400> 283

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cncntnctn	cnnatcgttc	cncctnntaa	ctacnctttn	nacnanncct	cactnatncc	600
ngnnantttc	ttccttccct	cccnaogenn	tgcgtgcgcc	cgtctngcct	nnnctncgna	660
cccnnacttt	atttaccttt	ncaccctagc	nctctacttn	acccancnc	tcctacctcc	720
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<210> 284  
<211> 157  
<212> DNA  
<213> Homo sapien

<400> 284

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aaataagcta	gtttaagata	cgttccccct	cacttga			157

<210> 285  
<211> 150  
<212> DNA  
<213> Homo sapien

<400> 285

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tactgtatga	cttcatttac	attaagtgtc	cagaataggc	aatccgtag	agacagaaa	120
tagatgagca	gctgcctagg	tctgagtaca				150

<210> 286  
<211> 219  
<212> DNA  
<213> Homo sapien

<400> 286

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ataaatgcaa	gtctcaccac	cagatgtgaa	attacagtaa	actttgaagg	aatctcctga	120
gcaaccttgg	ttaggatcaa	tccaatatc	accatctggg	aagtcaggat	ggctgagttg	180
caggtcttta	caagttcggg	ctggattggg	ctgagtaca			219

<210> 287  
 <211> 196  
 <212> DNA  
 <213> Homo sapien

<400> 287  
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 atccatactc agaaggaacc aaccctgctg acaccttaat ttcagcttct ggccctctaga 120  
 actgtgagag agtacatttc tcttggttta agccaagaga atctgtcttt tggtaactta 180  
 tatcatagcc tcaaga 196

<210> 288  
 <211> 199  
 <212> DNA  
 <213> Homo sapien

<400> 288  
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 taggtactga agattcaagt gaccgagatg ctagcccttg ggttcaagt atccctctcc 180  
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<210> 289  
 <211> 182  
 <212> DNA  
 <213> Homo sapien

<400> 289  
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 tagtaataca gaagcaagta tctgtatatg taaacattaa aaaggtacag tgaaacttca 120  
 gtattataat cttagggacc accattatat atgtggtcca tcattggcca aaaaaaaaaa 180  
 aa 182

<210> 290  
 <211> 1646  
 <212> DNA  
 <213> Homo sapien

<400> 290  
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 ttgaaataga agtataagtt gctaccattt tttgataaca ttgaaagata gtattttacc 180  
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 gaccatatt atcatattca cttaaaaaaa tgatttcctg tgcacctttt ggcaacttct 780  
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cagtgcattg	acaatgggtt	gatatttttc	tttaaaagaa	aaatataatt	atgaaagcca	1140
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aaaaaaaaaa	aaaaaaaaaa	aaaaaa				1646

&lt;210&gt; 291

&lt;211&gt; 1851

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 291

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&lt;210&gt; 292

&lt;211&gt; 1851

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 292

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&lt;210&gt; 293

&lt;211&gt; 668

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 293

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aaaaaaa						668

<210> 294  
 <211> 1512  
 <212> DNA  
 <213> Homo sapien

<400> 294

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<210> 295  
 <211> 1853  
 <212> DNA  
 <213> Homo sapien

<400> 295

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&lt;210&gt; 296

&lt;211&gt; 2184

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 296

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&lt;210&gt; 297

&lt;211&gt; 1855

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1855)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 297

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&lt;210&gt; 298

&lt;211&gt; 1059

&lt;212&gt; DNA



&lt;213&gt; Homo sapien

&lt;400&gt; 298

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aagatctgga caagctccac agagctgccc tgggtgggta aagtccccag aaaggatctc    240
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caacttaatg tccttgacaa caaaaagagg acagctctga yaaaggccgt acaatgccag    420
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&lt;210&gt; 299

&lt;211&gt; 329

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 299

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Met Asp Ile Val Val Ser Gly Ser His Pro Leu Trp Val Asp Ser Phe
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Leu His Leu Ala Gly Ser Asp Leu Leu Ser Arg Ser Leu Met Ala Glu
  20          25          30
Glu Tyr Thr Ile Val His Ala Ser Phe Ile Ser Cys Ile Ser Ser Ser
  35          40          45
Leu Asp Gly Gln Gly Glu Arg Gln Glu Gln Arg Gly His Phe Trp Arg
  50          55          60
Pro Gln Arg Leu Leu Cys Glu Asp Ala Trp Glu Gln Glu Val Gln Val
  65          70          75          80
Val Leu Pro Leu Leu Pro Leu Leu Gln Gly Ser Gly Lys Ser Asn Val
  85          90          95
Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr
  100         105         110
His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp
  115         120         125
Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp
  130         135         140
Val Asn Lys Arg Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser
  145         150         155         160
Ala Asn Gly Asn Ser Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys
  165         170         175
Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala
  180         185         190
Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly
  195         200         205

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Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr
 210          215          220
Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr
225          230          235          240
Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu
          245          250          255
Leu Gly Ile His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys
          260          265          270
Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu
          275          280          285
Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu
          290          295          300
Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu
305          310          315          320
Ser Met Leu Phe Leu Val Ile Ile Met
          325

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<210> 300
<211> 148
<212> PRT
<213> Homo sapien

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<220>
<221> VARIANT
<222> (1)...(148)
<223> Xaa = Any Amino Acid

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<400> 300
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Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Xaa Asp Lys
          35          40          45
Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu
          50          55          60
Val Val Lys Leu Xaa Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp
          65          70          75          80
Asn Lys Lys Arg Thr Ala Leu Xaa Lys Ala Val Gln Cys Gln Glu Asp
          85          90          95
Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro
          100          105          110
Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Xaa Tyr Asn Glu Asp
          115          120          125
Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser
          130          135          140
Lys Asn Lys Val
145

```

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<210> 301
<211> 1155
<212> DNA
<213> Homo sapien

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&lt;400&gt; 301

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gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagttact	ttctgactac	1080
aaagaaaaac	agatgctaaa	aatctcttct	gaaaacagca	atccagaaaa	tgtctcaaga	1140
accagaaata	aataa					1155

&lt;210&gt; 302

&lt;211&gt; 2000

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 302

atggtggttg	aggttgattc	catgccggct	gcctcttctg	tgaagaagcc	atttgggtctc	60
aggagcaaga	tgggcaagtg	gtgctgccgt	tgtttccctt	gctgcaggga	gagcggcaag	120
agcaacgtgg	gcacttctgg	agaccacgac	gactctgcta	tgaagacact	caggagcaag	180
atgggcaagt	ggtgccgcca	ctgcttcccc	tgtgcagggg	ggagtggcaa	gagcaacgtg	240
ggcgcttctg	gagaccacga	cgactctgct	atgaagacac	tcaggaacaa	gatgggcaag	300
tgggtgctgcc	actgcttccc	ctgctgcagg	gggagcggca	agagcaaggt	gggcgcttgg	360
ggagactacg	atgacagtgc	cttcatggag	cccagggtacc	acgtccgtgg	agaagatctg	420
gacaagctcc	acagagctgc	ctggtggggg	aaagtcccca	gaaaggatct	catcgtcatg	480
ctcagggaca	ctgacgtgaa	caagaaggac	aagcaaaaga	ggactgctct	acatctggcc	540
tctgccaatg	ggaattcaga	agtagtaaaa	ctcctgctgg	acagacgatg	tcaacttaat	600
gtccttgaca	acaaaaagag	gacagctctg	ataaaggccg	tacaatgcca	ggaagatgaa	660
tgtgcggttaa	tgttgctgga	acatggcaact	gatccaaata	ttccagatga	gtatggaaat	720
accactctgc	actacgctat	ctataatgaa	gataaattaa	tggccaaagc	actgctctta	780
tatggtgctg	atatcgaaatc	aaaaaacaag	catggcctca	caccactgtt	acttgggtgta	840
catgagcaaa	aacagcaagt	cgtgaaatct	ttaatcaaga	aaaaagcgaa	tttaaatgca	900
ctggatagat	atggaaggac	tgtctctcata	cttgcgtgat	gttgtggatc	agcaagtata	960
gtcagccttc	tacttgagca	aaatattgat	gtatcttctc	aagatctatc	tggacagacg	1020
gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagttact	ttctgactac	1080
aaagaaaaac	agatgctaaa	aatctcttct	gaaaacagca	atccagaaaa	agacttaaaag	1140
ctgacatcag	aggaagagtc	acaaagggtt	aaaggcagtg	aaaatagcca	gccagagaaa	1200
atgtctcaag	aaccagaaat	aaataaggat	ggtgatagag	agggtgaaga	agaaatgaag	1260
aagcatgaaa	gtaataatgt	gggattacta	gaaaacctga	ctaattggtgt	cactgctggc	1320
aatggtgata	atggattaat	tcctcaaagg	aagagcagaa	cacctgaaaa	tcagcaattt	1380
cctgacaacg	aaagtgaaga	gtatcacaga	atttgcgat	tagtttctga	ctacaaagaa	1440
aaacagatgc	caaaatactc	ttctgaaaac	agcaaccacg	aacaagactt	aaagctgaca	1500
tcagaggaag	agtcacaaag	gcttgagggc	agtgaaaatg	gccagccaga	gctagaaaat	1560

tttatggcta	tcgaagaaat	gaagaagcac	ggaagtactc	atgtcggatt	cccagaaaac	1620
ctgactaatg	gtgccactgc	tggcaatggg	gatgatggat	taattcctcc	aaggaagagc	1680
agaacacctg	aaagccagca	atttcctgac	actgagaatg	aagagtatca	cagtgcagaa	1740
caaaatgata	ctcagaagca	attttgtgaa	gaacagaaca	ctggaatatt	acacgatgag	1800
attctgattc	atgaagaaaa	gcagatagaa	gtgggtgaaa	aatgaattc	tgagctttct	1860
cttagttgta	agaaagaaaa	agacatcttg	catgaaaata	gtacgttgcg	ggaagaaatt	1920
gccatgctaa	gactggagct	agacacaatg	aaacatcaga	gccagctaaa	aaaaaaaaaa	1980
aaaaaaaaaa	aaaaaaaaaa					2000

&lt;210&gt; 303

&lt;211&gt; 2040

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 303

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aggagcaaga	tgggcaagtg	gtgctgccgt	tgtctccctc	gctgcaggga	gagcggcaag	120
agcaacgtgg	gcacttctgg	agaccacgac	gactctgcta	tgaagacact	caggagcaag	180
atgggcaagt	ggtgccgcca	ctgcttcccc	tgtgcagggg	ggagtggcaa	gagcaacgtg	240
ggcgcttctg	gagaccacga	cgactctgct	atgaagacac	tcaggaacaa	gatgggcaag	300
tggtgctgcc	actgcttccc	ctgctgcagg	gggagcggca	agagcaaggt	ggcgcttggg	360
ggagactacg	atgacagtgc	cttcatggag	cccaggtaac	acgtccgtgg	agaagatctg	420
gacaagctcc	acagagctgc	ctggtggggg	aaagtcccca	gaaaggatct	catcgctcatg	480
ctcagggaca	ctgacgtgaa	caagaaggac	aagcaaaaaga	ggactgctct	acatctggcc	540
tctgccaatg	ggaattcaga	agtagtaaaa	ctcctgctgg	acagacgatg	tcaacttaat	600
gtccttgaca	acaaaaagag	gacagctctg	ataaaggccg	tacaatgcca	ggaagatgaa	660
tgtgcgttaa	tgttgctgga	acatggcact	gatccaaata	ttccagatga	gtatggaaat	720
accactctgc	actacgctat	ctataatgaa	gataaattaa	tggccaaaagc	actgctctta	780
tatggtgctg	atatcgaatc	aaaaaacaag	catggcctca	caccactgtt	acttgggtgta	840
catgagcaaa	aacagcaagt	cgtgaaatth	ttaatcaaga	aaaaagcgaa	tttaaatgca	900
ctggatagat	atggaaggac	tgtctcata	cttgcgtgat	gttggtggatc	agcaagtata	960
gtcagccttc	tacttgagca	aaatattgat	gtatcttctc	aagatctatc	tggacagacg	1020
gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagttact	ttctgactac	1080
aaagaaaaac	agatgctaaa	aatctcttct	gaaaacagca	atccagaaca	agacttaaa	1140
ctgacatcag	aggaagagtc	acaaagggtc	aaaggcagtg	aaaatagcca	gccagagaaa	1200
atgtctcaag	aaccagaaat	aaataaggat	ggtgatagag	aggttgaaga	agaaatgaag	1260
aagcatgaaa	gtaataatgt	gggattacta	gaaaacctga	ctaattggtgt	cactgctggc	1320
aatggtgata	atggattaat	tcctcaaagg	aagagcagaa	cacctgaaaa	tcagcaatth	1380
cctgacaacg	aaagtgaaga	gtatcacaga	atthgcgaat	tagthttctga	ctacaaagaa	1440
aaacagatgc	caaaatactc	ttctgaaaac	agcaaccacg	aacaagactt	aaagctgaca	1500
tcagaggaag	agtcacaaa	gcttgagggc	agtgaaaatg	gccagccaga	gaaaagatct	1560
caagaaccag	aaataaataa	ggatggtgat	agagagctag	aaaattthtat	ggctatcgaa	1620
gaaatgaaga	agcacggaag	tactcatgtc	ggattcccag	aaaacctgac	taatggtgcc	1680
actgctggca	atggtgatga	tggattaatt	cctccaagga	agagcagaac	acctgaaaagc	1740
cagcaatttc	ctgacactga	gaatgaagag	tatcacagtg	acgaacaaaa	tgatactcag	1800
aagcaattth	gtgaagaaca	gaacactgga	atattacacg	atgagattct	gattcatgaa	1860
gaaaagcaga	tagaagtggg	tgaaaaaatg	aattctgagc	thttctcttag	ttgtaagaaa	1920
gaaaaagaca	tcttgcatga	aaatagtacg	ttgcgggaag	aaattgccat	gctaagactg	1980
gagctagaca	caatgaaaca	tcagagccag	ctaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2040

&lt;210&gt; 304

&lt;211&gt; 384

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 304

Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser	Ser	Val	Lys	Lys
1				5					10					15	
Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe
			20					25					30		
Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp
		35					40					45			
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp
	50					55					60				
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val
65					70					75				80	
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn
				85					90					95	
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser
			100					105					110		
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe
		115					120					125			
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
	130					135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155				160	
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
				165					170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu
			180				185						190		
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
	195						200					205			
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met
	210					215					220				
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn
225					230					235				240	
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys
				245					250					255	
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly
			260				265						270		
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val
	275					280						285			
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr
	290					295				300					
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile
305					310					315				320	
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu
				325					330					335	
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val
			340				345						350		
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile
	355					360						365			
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Asn	Val	Ser	Arg	Thr	Arg	Asn	Lys
	370					375					380				

&lt;210&gt; 305

&lt;211&gt; 656

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 305

Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser	Ser	Val	Lys	Lys
1			5					10					15		
Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe
		20						25					30		
Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp
		35					40				45				
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp
	50					55					60				
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val
65					70				75					80	
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn
				85					90					95	
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser
			100					105					110		
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe
			115					120				125			
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
	130					135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155				160	
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
				165					170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu
			180					185					190		
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
	195						200					205			
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met
	210					215					220				
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn
225					230					235				240	
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys
				245					250					255	
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly
			260				265						270		
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val
	275						280					285			
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr
	290					295					300				
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile
305					310				315					320	
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu
				325					330					335	
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val
			340					345					350		
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile
	355						360					365			
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu
	370					375					380				
Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	Ser	Glu	Asn	Ser	Gln	Pro	Glu	Lys
385					390					395				400	
Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp	Arg	Glu	Val	Glu

405 410 415  
 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn  
 420 425 430  
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro  
 435 440 445  
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu  
 450 455 460  
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu  
 465 470 475 480  
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp  
 485 490 495  
 Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu  
 500 505 510  
 Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys  
 515 520 525  
 Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly  
 530 535 540  
 Ala Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser  
 545 550 555 560  
 Arg Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr  
 565 570 575  
 His Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln  
 580 585 590  
 Asn Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln  
 595 600 605  
 Ile Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys  
 610 615 620  
 Lys Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile  
 625 630 635 640  
 Ala Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu  
 645 650 655

&lt;210&gt; 306

&lt;211&gt; 671

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 306

Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys  
 1 5 10 15  
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe  
 20 25 30  
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp  
 35 40 45  
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp  
 50 55 60  
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val  
 65 70 75 80  
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn  
 85 90 95  
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser  
 100 105 110  
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe  
 115 120 125

Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
130						135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155					160
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
			165						170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu
		180						185					190		
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
	195						200					205			
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met
210						215					220				
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn
225					230					235					240
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys
			245						250					255	
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly
			260					265					270		
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val
		275					280					285			
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr
290						295					300				
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile
305					310					315					320
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu
				325					330					335	
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val
			340					345					350		
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile
		355					360					365			
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu
370						375					380				
Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	Ser	Glu	Asn	Ser	Gln	Pro	Glu	Lys
385					390					395					400
Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp	Arg	Glu	Val	Glu
				405					410					415	
Glu	Glu	Met	Lys	Lys	His	Glu	Ser	Asn	Asn	Val	Gly	Leu	Leu	Glu	Asn
		420						425				430			
Leu	Thr	Asn	Gly	Val	Thr	Ala	Gly	Asn	Gly	Asp	Asn	Gly	Leu	Ile	Pro
		435					440					445			
Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Asn	Gln	Gln	Phe	Pro	Asp	Asn	Glu
450						455					460				
Ser	Glu	Glu	Tyr	His	Arg	Ile	Cys	Glu	Leu	Val	Ser	Asp	Tyr	Lys	Glu
465					470					475					480
Lys	Gln	Met	Pro	Lys	Tyr	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp
				485					490					495	
Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Leu	Glu	Gly	Ser	Glu
			500					505				510			
Asn	Gly	Gln	Pro	Glu	Lys	Arg	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp
		515					520					525			
Gly	Asp	Arg	Glu	Leu	Glu	Asn	Phe	Met	Ala	Ile	Glu	Glu	Met	Lys	Lys
530						535					540				
His	Gly	Ser	Thr	His	Val	Gly	Phe	Pro	Glu	Asn	Leu	Thr	Asn	Gly	Ala
545					550					555					560



Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser Arg  
                   565                  570                  575  
 Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Tyr His  
                   580                  585                  590  
 Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln Asn  
                   595                  600                  605  
 Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln Ile  
                   610                  615                  620  
 Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys Lys  
                   625                  630                  635                  640  
 Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile Ala  
                   645                  650                  655  
 Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu  
                   660                  665                  670

<210> 307

<211> 800

<212> DNA

<213> Homo sapien

<400> 307

atkagcttcc	gcttctgaca	acactagaga	tccctcccct	ccctcagggt	atggccctcc	60
aottcatttt	tggtacataa	catctttata	ggacaggggt	aaaatcccaa	tactaacagg	120
agaatgctta	ggactctaac	aggtttttga	gaatgtgttg	gtaagggcca	ctcaatccaa	180
tttttcttgg	tcctccttgt	ggtctaggag	gacaggcaag	ggtgcagatt	ttcaagaatg	240
catcagtaag	ggccactaaa	tccgaccttc	ctcgttccct	cttgtggtct	gggaggaaaa	300
ctagtgtttc	tgttgctgtg	tcagtgagca	caactattcc	gatcagcagg	gtccagggac	360
cactgcaggt	tcttgggcag	ggggagaaac	aaaacaaacc	aaaaccatgg	gcrgttttgt	420
ctttcagatg	ggaaacactc	aggcatcaac	aggtcacct	ttgaaatgca	tcctaagcca	480
atgggacaaa	tttgaccac	aaacctgga	aaaagagggt	gctcattttt	tttgactat	540
ggottggccc	caacattctc	tctctgatgg	ggaaaaatgg	ccacctgagg	gaagtacaga	600
ttacaatact	atcctgcagc	ttgacctttt	ctgtaagagg	gaaggcaa	ggagtgaat	660
accttatgtc	caagctttct	tttcattgaa	ggagaatata	ctatgcaaag	cttgaaat	720
acatcccaca	ggaggacctc	tcagcttacc	cccatatcct	agcctcccta	tagctcccct	780
tcctattagt	gataagcctc					800

<210> 308

<211> 102

<212> PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(102)

<223> Xaa = Any Amino Acid

<400> 308

Met	Gly	Xaa	Phe	Val	Phe	Gln	Met	Gly	Asn	Thr	Gln	Ala	Ser	Thr	Gly
1				5				10						15	
Ser	Pro	Leu	Lys	Cys	Ile	Leu	Ser	Gln	Trp	Asp	Lys	Phe	Asp	Pro	Gln
			20					25					30		
Thr	Leu	Glu	Lys	Glu	Val	Ala	His	Phe	Phe	Cys	Thr	Met	Ala	Trp	Pro
		35					40				45				
Gln	His	Ser	Leu	Ser	Asp	Gly	Glu	Lys	Trp	Pro	Pro	Glu	Gly	Ser	Thr

50					55					60					
Asp	Tyr	Asn	Thr	Ile	Leu	Gln	Leu	Asp	Leu	Phe	Cys	Lys	Arg	Glu	Gly
65					70					75					80
Lys	Trp	Ser	Glu	Ile	Pro	Tyr	Val	Gln	Ala	Phe	Phe	Ser	Leu	Lys	Glu
				85					90					95	
Asn	Thr	Leu	Cys	Lys	Ala										
			100												

<210> 309  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in the lab

<400> 309  
 Leu Met Ala Glu Glu Tyr Thr Ile Val  
 1 5

<210> 310  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in the lab

<400> 310  
 Lys Leu Met Ala Lys Ala Leu Leu Leu  
 1 5

<210> 311  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in the lab

<400> 311  
 Gly Leu Thr Pro Leu Leu Leu Gly Ile  
 1 5

<210> 312  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in the lab

<400> 312  
 Lys Leu Val Leu Asp Arg Arg Cys Gln Leu

1

5

10

<210> 313  
 <211> 1852  
 <212> DNA  
 <213> Homo sapiens

<400> 313

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aaaaccacct	atgacaagcc	cacagccaac	ataatactaa	atggggaaaa	gttagaagca	120
tttcctctga	gaactgcaac	aataaatata	aggatgctgg	attttgtcaa	atgccttttc	180
tgtgtctgtt	gagatgctta	tgtgactttg	cttttaattc	tgtttatgtg	attatcacat	240
ttattgactt	gcctgtgtta	gaccggaaga	gctgggggtg	ttctcaggag	ccaccgtgtg	300
ctgcggcagc	ttcgggataa	cttgaggctg	catcactggg	gaagaaacac	aytcctgtcc	360
gtggcgctga	tggctgagga	cagagcttca	gtgtggcttc	tctgcgactg	gcttcttcgg	420
ggagtctctc	cttcatagtt	catccatatg	gctccagagg	aaaattatat	tattttgtta	480
tggatgaaga	gtattacgtt	gtgcagatat	actgcagtgt	cttcactctc	tgatgtgtga	540
ttgggtaggt	tccaccatgt	tgccgcagat	gacatgattt	cagtacctgt	gtctggctga	600
aaagtgtttg	tttgtgaatg	gataattgtg	tttctggatc	tcatcctctg	tgggtggaca	660
gctttctcca	ccttgctgga	agtgcactgc	tgtccagaag	tttgatggct	gaggagtata	720
ccatcgtgca	tgcactcttc	atttcctgca	tttcttcctc	cctggatgga	cagggggagc	780
ggcaagagca	acgtgggcac	ttctggagac	cacaacgact	cctctgtgaa	gacgcttggg	840
agcaagaggt	gcaagtgggt	ctgccactgc	ttccctgct	gcagggggag	cggcaagagc	900
aacgtggctg	cttggggaga	ctacgatgac	agcgcttca	tggatcccag	gtaccacgtc	960
catggagaag	atctggacaa	gctccacaga	gctgcctggg	ggggtaaagt	cccagaaaag	1020
gatctcatcg	tcatgctcag	ggacacggat	gtgaacaaga	gggacaagca	aaagaggact	1080
gctctacatc	tggcctctgc	caatgggaat	tcagaagtag	taaaactcgt	gctggacaga	1140
cgatgtcaac	ttaatgtcct	tgacaacaaa	aagaggacag	ctctgacaaa	ggccgtacaa	1200
tgccaggaag	atgaatgtgc	gttaatgttg	ctggaacatg	gactgatcc	aaatattcca	1260
gatgagtatg	gaaataccac	tctacactat	gctgtctaca	atgaagataa	attaatggcc	1320
aaagcactgc	tcttatacgg	tgtgatatac	gaatcaaaaa	acaagcatgg	cctcacacca	1380
ctgctacttg	gtatacatga	gcaaaaacag	caagtgggtga	aatttttaat	caagaaaaaa	1440
gcgaatttaa	atgcgctgga	tagatatgga	agaactgctc	tcatacttgc	tgtatgttgt	1500
ggatcagcaa	gtatagtcag	ccctctactt	gagcaaaaatg	ttgatgtatc	ttctcaagat	1560
ctggaaagac	ggccagagag	tatgctgttt	ctagtcatca	tcatgtaatt	tgccagttac	1620
tttctgacta	caaagaaaaa	cagatgttaa	aaatctcttc	tgaaaacagc	aatccagaac	1680
aagacttaaa	gctgacatca	gaggaagagt	cacaaaggct	taaaggaagt	gaaaacagcc	1740
agccagagct	agaagattta	tggctattga	agaagaatga	agaacacgga	agtactcatg	1800
tgggattccc	agaaaacctg	actaacgggtg	ccgctgctgg	caatggtgat	ga	1852

<210> 314  
 <211> 879  
 <212> DNA  
 <213> Homo sapiens

<400> 314

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aaagtgggca	cttctggaga	ccacaacgac	tcctctgtga	agacgcttgg	gagcaagagg	120
tgcaagtggg	gctgccactg	cttcccctgc	tgcaggggga	gcggaagag	caacgtgggtc	180
gcttggggag	actacgatga	cagcgcttcc	atggatccca	ggtaccacgt	ccatggagaa	240
gatctggaca	agctccacag	agctgcctgg	tggggtaaag	tcccagaaa	ggatctcatc	300
gtcatgtctc	gggacacgga	tgtgaacaag	agggacaagc	aaaagaggac	tgctctacat	360
ctggcctctg	ccaatgggaa	ttcagaagta	gtaaaactcg	tgctggacag	acgatgtcaa	420
cttaattgtc	ttgacaacaa	aaagaggaca	gctctgacaa	aggccgtaca	atgccaggaa	480

```

gatgaatgtg cgtaaattgtt gctggaacat ggcactgatc caaatattcc agatgagtat 540
ggaaataacca ctctacacta tgctgtctac aatgaagata aattaatggc caaagcactg 600
ctcttatacgt gtgctgatat cgaatcaaaa aacaagcatg gcctcacacc actgctactt 660
ggtatacatg agcaaaaaca gcaagtgggtg aaatttttaa tcaagaaaaa agcgaattta 720
aatgcgctgg atagatatgg aagaactgct ctcatacttg ctgtatgttg tggatcagca 780
agtatagtca gccctctact tgagcaaaat gttgatgtat cttctcaaga tctggaaaga 840
cggccagaga gtatgctgtt tctagtcac atcatgtaa 879

```

<210> 315

<211> 292

<212> PRT

<213> Homo sapiens

<400> 315

```

Met His Leu Ser Phe Pro Ala Phe Leu Pro Pro Trp Met Asp Arg Gly
              5                      10                      15

Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asn Asp Ser Ser
              20                      25                      30

Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe
              35                      40                      45

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
              50                      55                      60

Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
              65                      70                      75                      80

Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
              85                      90                      95

Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
              100                     105                     110

Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
              115                     120                     125

Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu
              130                     135                     140

Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu
              145                     150                     155                     160

Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile
              165                     170                     175

Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
              180                     185                     190

Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
              195                     200                     205

Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu

```

210 215 220

Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Lys Ala Asn Leu  
225 230 235 240

Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys  
245 250 255

Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp  
260 265 270

Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu Ser Met Leu Phe Leu  
275 280 285

Val Ile Ile Met  
290

<210> 316  
<211> 584  
<212> DNA  
<213> Homo sapiens

<400> 316

agttggggcca	aattcccctc	cccctacagc	ttgaagggga	cataaccaat	agcctgggggt	60
ttttttgttg	tcctttggag	atttctttgc	ttattttctt	ctgggtgggg	gtgattagag	120
gaggcttatt	actaatagga	aggggagcta	tagggaggct	aggatatggg	ggtaagctga	180
gaggctcctc	tgtgggatgt	aaatttcaag	ctttgcatag	tgtattctcc	ttcaatgaaa	240
agaaagcttg	gacataaggt	atttcacttc	atttgccctc	cctcttacag	aaaagggtcaa	300
gctgcaggat	agtattgtaa	tctgtacttc	cctcagggtg	ccatttttcc	ccatcagaga	360
gagaatgttg	gggccaaagg	atagtgcaga	aaaaaaaaatg	agccacctct	ttttccaggg	420
tttgtgggtc	aaatttgtcc	cattggctta	ggatgcattt	caaagggtgag	cctgttgatg	480
cctgagtgtt	tcccatctga	aagacaaaac	tgcccatggt	tttggtttgt	tttgtttctc	540
cccctgccca	agaactatca	aactcctgag	ccaacaacta	aaaa		584

<210> 317  
<211> 829  
<212> DNA  
<213> Homo sapiens

<400> 317

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acttcatttt	tggtacataa	catctttata	ggacaggggt	aaaatcccaa	tactaacagg	120
agaatgctta	ggactctaac	aggtttttga	gaatgtgttg	gtaagggcca	ctcaatccaa	180
tttttcttgg	tctccttgt	ggtctaggag	gacaggcaag	ggtgcagatt	ttcaagaatg	240
catcagtaag	ggccactaaa	tccgaccttc	ctcgttcctc	cttgtgtgtc	gggaggaaaa	300
ctagtgtttc	tgttgctgtg	tcagtgcaga	caactatttc	gatcagcagg	gtccaggggac	360
cactgcagggt	tcttgggcag	ggggagaaac	aaaacaaacc	aaaaccatgg	gcagttttgt	420
ctttcagatg	ggaaacactc	aggcatcaac	aggctcacct	ttgaaatgca	tcctaagcca	480
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ggcttggccc	caacattctc	tctctgatgg	ggaaaaatgg	ccacctgagg	gaagtacaga	600
ttacaatact	atcctgcagc	ttgacctttt	ctgtaagagg	gaaggcaaat	ggagtgaat	660
accttatgtc	caagctttct	tttcattgaa	ggagaataca	ctatgcaaag	cttgaaattt	720
acatcccaca	ggaggacctc	tcagcttacc	cccatatcct	agcctcccta	tagctcccct	780
tcctattagt	gataagcctc	ctctaatac	ccccaccag	agaaaaata		829

<210> 318  
 <211> 30  
 <212> PRT  
 <213> Homo sapien

<400> 318  
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe  
 1 5 10 15  
 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile  
 20 25 30

<210> 319  
 <211> 41  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 319  
 ggcctctgcc aatgggaact cagaagtagt aaaactcctg c 41

<210> 320  
 <211> 41  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 320  
 gcaggagttt tactacttct gagttcccat tggcagaggc c 41

<210> 321  
 <211> 60  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 321  
 ggggaattcc cgctggtgcc gcgcggcagc cctatggtgg ttgaggttga 50  
 ttccatgccg 60

<210> 322  
 <211> 42  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 322

cccgaattct tatttatttc tggttcttga gacattttct gg 42

<210> 323  
 <211> 1590  
 <212> DNA  
 <213> Homo sapiens

<400> 323

atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccaggggtgg 60  
 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120  
 accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180  
 ggcgcacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240  
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300  
 gcgcttaacg ggcatcatcc cggtgacgtc atctcgggtga cctggcaaac caagtcgggc 360  
 ggcacgcgta cagggaaacgt gacattggcc gagggacccc cggccgaatt cccgctggtg 420  
 ccgcgcggca gccctatggt ggttgaggtt gattccatgc cggctgcttc ttctgtgaag 480  
 aagccatttg gtctcaggag caagatgggc aagtgggtgt gccgttgctt cccctgctgc 540  
 agggagagcg gcaagagcaa cgtgggcact tctggagacc acgacgactc tgctatgaag 600  
 aactcagga gcaagatggg caagtgggtc cgccactgct tccctgctg cagggggagt 660  
 ggcaagagca acgtgggcgc ttctggagac cacgacgact ctgctatgaa gacactcagg 720  
 aacaagatgg gcaagtgggt ctgccactgc ttccctgct gcagggggag cggcaagagc 780  
 aaggtgggcg cttggggaga ctacgatgac agygccctca tggagcccag gtaccacgtc 840  
 cgtggagaag atctggacaa gctccacaga gctgcctggt ggggtaaagt cccagaaaag 900  
 gatctcatcg tcatgctcag ggacactgac gtgaacaaga aggacaagca aaagaggact 960  
 gctctacatc tggcctctgc caatgggaat tcagaagtag taaaactcct gctggacaga 1020  
 cgatgtcaac ttaatgtcct tgacaacaaa aagaggacag ctctgataaa ggccgtacaa 1080  
 tgccaggaag atgaatgtgc gttaatgttg ctggaacatg gcaactgatcc aaatattcca 1140  
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 aaagcactgc tcttatatgg tgctgatatc gaatcaaaaa acaagcatgg cctcacacca 1260  
 ctgttacttg gtgtacatga gcaaaaacag caagtcgtga aatttttaat caagaaaaaa 1320  
 gcgaatttaa atgcaactgga tagatatgga aggactgctc tcatacttgc tgtatgttgt 1380  
 ggatcagcaa gtatagtcag ctttctactt gagcaaaata ttgatgtatc ttctcaagat 1440  
 ctatctggac agacggccag agagtatgct gtttctagtc atcatcatgt aatttgccag 1500  
 ttactttctg actacaaaga aaaacagatg ctaaaaatct cttctgaaaa cagcaatcca 1560  
 gaaaatgtct caagaaccag aaataaataa 1590

<210> 324  
 <211> 529  
 <212> PRT  
 <213> Homo sapiens

<400> 324

Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu  
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 Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala  
 20 25 30  
 Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala  
 35 40 45  
 Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val  
 50 55 60  
 Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr  
 65 70 75 80  
 Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr  
 85 90 95  
 Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser  
 100 105 110  
 Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr  
 115 120 125  
 Leu Ala Glu Gly Pro Pro Ala Glu Phe Pro Leu Val Pro Arg Gly Ser  
 130 135 140  
 Pro Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys  
 145 150 155 160  
 Lys Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys  
 165 170 175  
 Phe Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly  
 180 185 190  
 Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys  
 195 200 205  
 Trp Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn  
 210 215 220  
 Val Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg  
 225 230 235 240  
 Asn Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly  
 245 250 255  
 Ser Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala  
 260 265 270  
 Phe Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu  
 275 280 285



His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val  
 290 295 300  
 Met Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr  
 305 310 315 320  
 Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu  
 325 330 335  
 Leu Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg  
 340 345 350  
 Thr Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu  
 355 360 365  
 Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly  
 370 375 380  
 Asn Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala  
 385 390 395 400  
 Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His  
 405 410 415  
 Gly Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val  
 420 425 430  
 Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg  
 435 440 445  
 Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser  
 450 455 460  
 Ile Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp  
 465 470 475 480  
 Leu Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His  
 485 490 495  
 Val Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys  
 500 505 510  
 Ile Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn  
 515 520 525

Lys

<210> 325

<211> 1155

<212> DNA

<213> Homo sapiens

<400> 325

```

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agcaacatgg gcacttctgg agaccacgac gactccttta tgaagatgct caggagcaag 180
atgggcaagt gttgccgcca ctgcttcccc tgctgcaggg ggagcggcac gagcaacgtg 240
ggcacttctg gagaccatga aaactccttt atgaagatgc tcaggagcaa gatgggcaag 300
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gtcaatcttc tacttgagca aaatgttgat gtatcttctc aagatctatc tggacagacg 1020
gccagagagt atgctgtttc tagtcatcat catgtaattt gtgaattact ttctgactat 1080
aaagaaaaac agatgctaaa aatctcttct gaaaacagca atccagaaaa tgtctcaaga 1140
accagaataa aataa 1155

```

<210> 326

<211> 384

<212> PRT

<213> Homo sapiens

<400> 326

```

Met Val Ala Glu Val Cys Ser Met Pro Thr Ala Ser Thr Val Lys Lys
          5                      10                      15

```

```

Pro Phe Asp Leu Arg Ser Lys Met Gly Lys Trp Cys His His Arg Phe
          20                      25                      30

```

```

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Met Gly Thr Ser Gly Asp
          35                      40                      45

```

```

His Asp Asp Ser Phe Met Lys Met Leu Arg Ser Lys Met Gly Lys Cys
          50                      55                      60

```

```

Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Thr Ser Asn Val
          65                      70                      75                      80

```

```

Gly Thr Ser Gly Asp His Glu Asn Ser Phe Met Lys Met Leu Arg Ser
          85                      90                      95

```

```

Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
          100                      105                      110

```

```

Gly Lys Ser Asn Val Gly Ala Trp Gly Asp Tyr Asp His Ser Ala Phe
          115                      120                      125

```

```

Met Glu Pro Arg Tyr His Ile Arg Arg Glu Asp Leu Asp Lys Leu His
          130                      135                      140

```

Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met  
145 150 155 160

Leu Arg Asp Thr Asp Met Asn Lys Arg Asp Lys Glu Lys Arg Thr Ala  
165 170 175

Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Gln Leu Leu  
180 185 190

Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr  
195 200 205

Ala Leu Ile Lys Ala Ile Gln Cys Gln Glu Asp Glu Cys Val Leu Met  
210 215 220

Leu Leu Glu His Gly Ala Asp Arg Asn Ile Pro Asp Glu Tyr Gly Asn  
225 230 235 240

Thr Ala Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys  
245 250 255

Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys Val Gly  
260 265 270

Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val  
275 280 285

Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Val Leu Asp Arg Tyr  
290 295 300

Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile  
305 310 315 320

Val Asn Leu Leu Leu Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu  
325 330 335

Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val  
340 345 350

Ile Cys Glu Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile  
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Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys  
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<210> 327

<211> 634

<212> DNA

<213> Homo sapiens

<400> 327

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acaatgccag gaagatgaat gtgcgttaat gttgctggaa catggcactg atccgaatat 180

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accactgtta	cttggtgtac	atgagcaaaa	acagcaagtg	gtgaaatfff	taatcaagaa	360
aaaagcaaat	ttaaattgcac	tggatagata	tggagaact	gctctcatal	ttgctgtatg	420
ttgtggatcg	gcaagtatag	tcagccttct	acttgagcaa	aacattgatg	tatcttctca	480
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ccagttactt	tctgactaca	aagaaaaaca	gatactaaaa	gtctcttctg	aaaacagcaa	600
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&lt;210&gt; 328

&lt;211&gt; 1155

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 328

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&lt;210&gt; 329

&lt;211&gt; 1155

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 329

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<210> 330

<211> 1155

<212> DNA

<213> Homo sapiens

<400> 330

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<210> 331

<211> 210

<212> PRT

<213> Homo sapiens

<400> 331

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Leu Leu Leu Asp Arg Arg Cys Gln Leu Asn Ile Leu Asp Asn Lys Lys
      20              25              30

```

```

Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala
      35              40              45

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```

Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr
      50              55              60

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Gly Asn Thr Ala Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met  
65 70 75 80

Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys  
85 90 95

His Gly Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln  
100 105 110

Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp  
115 120 125

Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala  
130 135 140

Ser Ile Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln  
145 150 155 160

Asp Leu Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser Arg His  
165 170 175

Asn Val Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Ile Leu  
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Lys Val Ser Ser Glu Asn Ser Asn Pro Gly Asn Val Ser Arg Thr Arg  
195 200 205

Asn Lys  
210

<210> 332

<211> 384

<212> PRT

<213> Homo sapiens

<400> 332

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Pro Phe Asp Leu Arg Ser Lys Met Gly Lys Trp Cys His His Arg Phe  
20 25 30

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Met Gly Thr Ser Gly Asp  
35 40 45

His Asp Asp Ser Phe Met Lys Met Leu Arg Ser Lys Met Gly Lys Cys  
50 55 60

Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Thr Ser Asn Val  
65 70 75 80

Gly Thr Ser Gly Asp His Glu Asn Ser Phe Met Lys Met Leu Arg Ser  
85 90 95

Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser  
 100 105 110  
 Gly Lys Ser Asn Val Gly Ala Trp Gly Asp Tyr Asp His Ser Ala Phe  
 115 120 125  
 Met Glu Pro Arg Tyr His Ile Arg Arg Glu Asp Leu Asp Lys Leu His  
 130 135 140  
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met  
 145 150 155 160  
 Leu Arg Asp Thr Asp Met Asn Lys Arg Asp Lys Glu Lys Arg Thr Ala  
 165 170 175  
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Gln Leu Leu  
 180 185 190  
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr  
 195 200 205  
 Ala Leu Ile Lys Ala Ile Gln Cys Gln Glu Asp Glu Cys Val Leu Met  
 210 215 220  
 Leu Leu Glu His Gly Ala Asp Arg Asn Ile Pro Asp Glu Tyr Gly Asn  
 225 230 235 240  
 Thr Ala Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys  
 245 250 255  
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys Cys Gly  
 260 265 270  
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val  
 275 280 285  
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Val Leu Asp Arg Tyr  
 290 295 300  
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile  
 305 310 315 320  
 Val Asn Leu Leu Leu Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu  
 325 330 335  
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val  
 340 345 350  
 Ile Cys Glu Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile  
 355 360 365  
 Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys  
 370 375 380

<210> 333  
 <211> 384  
 <212> PRT  
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Met	Val	Ala	Glu	Val	Cys	Ser	Met	Pro	Ala	Ala	Ser	Ala	Val	Lys	Lys	5	10	15	
Pro	Phe	Asp	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	His	His	Arg	Phe	20	25	30	
Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Met	Gly	Thr	Ser	Gly	Asp	35	40	45	
His	Asp	Asp	Ser	Phe	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Cys	50	55	60	
Cys	His	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Thr	Ser	Asn	Val	65	70	75	80
Gly	Thr	Ser	Gly	Asp	His	Asp	Asn	Ser	Phe	Met	Lys	Thr	Leu	Arg	Ser	85	90	95	
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	100	105	110	
Gly	Lys	Ser	Asn	Val	Gly	Thr	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe	115	120	125	
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Arg	Glu	Asp	Leu	Asp	Lys	Leu	His	130	135	140	
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met	145	150	155	160
Leu	Arg	Asp	Thr	Asp	Met	Asn	Lys	Arg	Asp	Lys	Gln	Lys	Arg	Thr	Ala	165	170	175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Gln	Leu	Leu	180	185	190	
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr	195	200	205	
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Val	Leu	Met	210	215	220	
Leu	Leu	Glu	His	Gly	Ala	Asp	Gly	Asn	Ile	Gln	Asp	Glu	Tyr	Gly	Asn	225	230	235	240
Thr	Ala	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys				





Ser Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe  
 115 120 125  
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His  
 130 135 140  
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met  
 145 150 155 160  
 Leu Arg Asp Thr Asp Val Asn Lys Gln Asp Lys Gln Lys Arg Thr Ala  
 165 170 175  
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu  
 180 185 190  
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr  
 195 200 205  
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met  
 210 215 220  
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn  
 225 230 235 240  
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys  
 245 250 255  
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly  
 260 265 270  
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val  
 275 280 285  
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr  
 290 295 300  
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile  
 305 310 315 320  
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu  
 325 330 335  
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val  
 340 345 350  
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile  
 355 360 365  
 Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys  
 370 375 380